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## Bulletin - Western Michigan University: School of Graduate Studies Catalog 1957-1958

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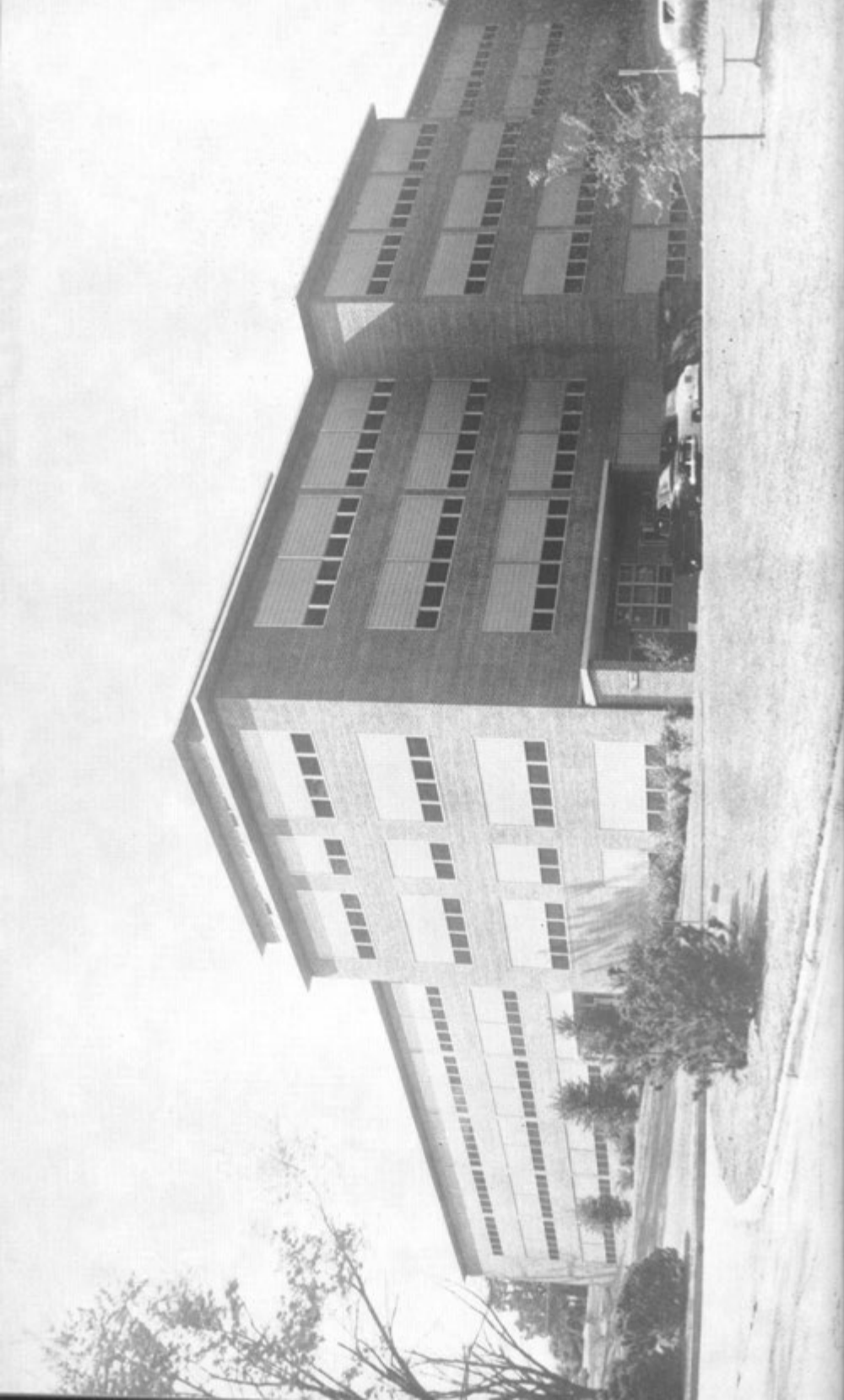
**SCHOOL OF GRADUATE STUDIES**

# **BULLETIN**

**1957 Summer School**

**1957-58 College Year**

**WESTERN MICHIGAN COLLEGE**



*Bulletin*

**WESTERN MICHIGAN COLLEGE**  
**KALAMAZOO, MICHIGAN**

**SCHOOL OF GRADUATE STUDIES**

**SUMMER SESSION 1957**  
**COLLEGE YEAR 1957-58**



This college is a member of the North Central Association of Colleges and Secondary Schools, and of the American Association of Colleges for Teacher Education. It is approved by the Association of American Universities and the American Association of University Women.

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**Vol. 52, No. 3**

**March 1957**

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## CALENDAR OF GRADUATE EVENTS

### June 1957-June 1958

#### Summer Session, 1957

June 24, Monday.....Registration and last day of enrollment  
June 25, Tuesday.....First day of classes  
June 27, Thursday.....Faculty reception for students  
June 28, Friday.....Last day for change of enrollment  
July 1, Monday.....Diploma applications due  
July 12, Friday.....Last day for dropping courses  
July 22, Monday.....Theses due from summer graduates  
July 24, Wednesday.....Graduate luncheon  
August 1, Thursday.....Commencement exercises  
August 2, Friday.....Session closes  
August 5, Monday - August 16, Friday.....Post-Session Workshops

#### First Semester, 1957-58

September 21, Saturday.....Registration  
September 27, Friday.....Last enrollment day without late fee  
September 28, Saturday.....First meeting of Saturday classes  
and last day of enrollment  
October 5, Saturday.....Last day for change of enrollment  
October 5, 12, 19, 26.....Saturday classes meet  
October 11, Friday.....Diploma applications due  
November 1, Friday.....Last day for dropping courses  
November 2, 9, 16, 23.....Saturday classes meet  
November 30.....Thanksgiving recess  
December 7, 14, 21.....Saturday classes meet  
December 28 and January 4.....Christmas vacation  
January 13, Monday.....Theses due from fall graduates  
January 11, 18.....Saturday classes meet  
January 25, Saturday.....Final examinations for Saturday classes  
January 26, Sunday.....Mid-year commencement exercises

#### Second Semester, 1958

February 8, Saturday.....Registration  
February 14, Friday.....Last enrollment day without late fee  
February 15, Saturday.....First meeting of Saturday classes  
and last day of enrollment  
February 22, Saturday.....Last day for change of enrollment  
February 22.....Saturday classes meet  
February 28, Friday.....Diploma applications due  
March 1, 8, 15, 22, 29.....Saturday classes meet  
March 21, Friday.....Last day for dropping courses  
April 5 and 12.....Easter vacation  
April 19, 26.....Saturday classes meet  
May 3, 10, 17, 24, 31.....Saturday classes meet  
May 26, Monday.....Theses due from spring graduates  
June 7, Saturday.....Final examinations for Saturday classes  
June 14, Saturday.....Commencement exercises

# *Administration*

## State Board of Education

CHARLES G. BURNS  
WALTER F. GRIES

STEPHEN S. NISBET  
CLAIR L. TAYLOR

## State Superintendent of Public Instruction

CLAIR L. TAYLOR

## Executive Council of Presidents

CHARLES L. ANSPACH  
Central Michigan College  
EUGENE B. ELLIOTT  
Eastern Michigan College

PAUL V. SANGREN  
Western Michigan College  
EDGAR L. HARDEN  
Northern Michigan College

## Officers of Administration

Paul V. Sangren, President  
Russell H. Seibert, Vice President, Academic Affairs  
L. Dale Faunce, Vice President, Student Services and Public Relations  
John A. Goldsworth, Superintendent, Building, Grounds and Construction  
James H. Griggs, Dean, School of Education  
George H. Hilliard, Director, Counseling  
George E. Kohrman, Dean, School of Applied Arts and Sciences  
Elizabeth E. Lichty, Dean of Women  
Vern E. Mabie, Director, Placement and Alumni Relations  
Cornelius B. MacDonald, Comptroller  
George G. Mallinson, Dean, School of Graduate Studies  
Clayton J. Maus, Registrar and Director of Admissions  
Gerald Osborn, Dean, School of Liberal Arts and Sciences  
Arnold E. Schneider, Dean, School of Business  
J. Towner Smith, Dean of Men  
Otto Yntema, Director of Field Services

## GRADUATE STAFF

George G. Mallinson, Ph.D.  
Margaret T. Mabie, A.B.  
Marion A. Davidson

Dean, School of Graduate Studies  
Assistant to the Dean  
Receptionist

## GRADUATE ADVISORY COUNCIL

George K. Cooper, M.B.A.	School of Business
Orie I. Frederick, Ph.D.	Research
James H. Griggs, Ed.D.	School of Education
George E. Kohrman, Ed.D.	School of Applied Arts and Sciences
Stanley E. Kuffel, Ed.D.	Department of Psychology
Floyd W. Moore, Ph.D.	Department of Economics
Gerald Osborn, Ph.D.	School of Liberal Arts and Sciences
Frederick J. Rogers, Ph.D.	Department of English
Arnold E. Schneider, Ph.D.	School of Business
William C. VanDeventer, Ph.D.	Department of Biology
Russell H. Seibert, Ph.D.	Ex-officio
Paul V. Sangren, Ph.D.	Ex-officio



# *Rules and Regulations*

## **Graduate Instruction**

Graduate instruction began at Western Michigan College in February, 1939, under a cooperative arrangement with the University of Michigan. The Board of Regents of the University at its meeting in July, 1938, passed a resolution approving a formal request from the State Board of Education that the University cooperate with the three Michigan Teachers Colleges and Michigan State Normal College in planning a program of graduate instruction. According to this action, a Graduate Division, organized and administered as an extra-mural unit of the Horace H. Rackham School of Graduate Studies, was set up at each of the four colleges.

On October 12, 1951, the State Board of Education approved the proposal of the Presidents of the Colleges of Education to set up independent graduate divisions in each of the four colleges.

The divisions were given permission to develop graduate curricula in all areas involved in the preparation of teachers, administrators and supervisors for the public schools of Michigan as soon as each college believed that it was desirable and possible to do so. The State Board authorized the Colleges of Education to grant the master's degree with specialization in Education to those completing such a program under the rules, regulations and procedures adopted by each institution and approved by the State Board of Education. Western Michigan College decided to inaugurate its own graduate program at the beginning of the fall semester of 1952 as permitted by this State Board action.

On July 1, 1956, another forward step was accomplished. As part of the administrative reorganization of the entire college, the Graduate Division became an independent unit known as The School of Graduate Studies.

The growth of the graduate program is evidenced by increasing enrollments. Under the cooperative program the highest enrollment during the academic year was 209 in the fall semester, 1950; under the independent program, 581 in the fall semester, 1956. The highest summer session enrollment under the cooperative program was 406 in 1950; under the independent program, 760 in 1956.

## **Administration**

The School of Graduate Studies is administered by a Dean and a Graduate Advisory Council of nine members. The members are appointed for terms of three years with the Dean acting as Chairman and the President of the College and the Vice President in charge of Academic Affairs as members *ex-officio*.

## **Permission to Enroll**

Permission to enroll in graduate courses is granted to students who have received a bachelor's degree from an accredited institution.

**Note:**

1. An accredited institution is one listed as approved by the regional accrediting association. A student from a non-accredited institution may be allowed to take up to six hours of graduate work at which time his status may be reviewed.

2. Students from Western Michigan College who are within six hours of receiving a bachelor's degree will be permitted to enroll in up to six hours of graduate work during the last semester before receiving the degree.

Permission to enroll is granted in this way:

1. A student must complete and submit to the Graduate Office an Application for Permission to Enroll.

2. An official transcript from the institution awarding the bachelor's degree must be filed with the Graduate Office.

3. A pre-enrollment interview must be arranged with the Dean or the Assistant to the Dean to discuss the student's graduate work. An interview will be held only after the student's transcript is on file in the Graduate Office.

4. Students whose transcripts indicate low scholarship in certain areas may be expected to take extra work to remedy such deficiencies. These students may be retained on an unclassified status until such extra work is completed.

## **Counseling**

At the pre-enrollment interview, unless retained on an unclassified status, the enrollee will be assigned to the graduate adviser for the curriculum he tentatively selects. The duties of the Graduate Adviser are to help a student set up a program which meets all of the requirements for his curriculum, select the courses which will insure the best preparation for his intended goal, plan his schedule from semester to semester, approve his Candidacy for the Master's Degree and, in general, help the student become familiar with the curriculum set up by the School of Graduate Studies. Prior to each enrollment, the student is counseled by the adviser with respect to the courses in which he will enroll.

## **Admission to Candidacy for the Master's Degree**

A student may apply for admission to candidacy for the degree after completing at least ten semester hours of graduate work in residence with at least an average grade of B. A student is urged to apply for candidacy for the master's degree when ten (10) hours of graduate work in residence have been completed. He must apply, however, prior to electing the last six (6) hours.

Application for candidacy is accomplished as follows:

1. The student must complete and file with the Graduate Office an Application for Admission to Candidacy for the Degree.

2. The student must list on the Application for Admission to Candidacy the name of an employer or critic teacher, and the name of a member of the faculty in whose course he has been enrolled during the previous four years, who will provide statements testifying specifically to his strength and weaknesses in qualities essential to the teaching profession and to his ability to use the English language effectively.

**Note:**

The Graduate Office will send to these persons the initial request for such letters. However, it is the responsibility of the candidate to see that such letters are received by the Graduate Office. If such letters do not arrive the application will not be considered valid.

3. The student must present at least fifteen hours of undergraduate credit in education courses or the equivalent.

4. The student must submit a program of study approved by his curriculum adviser.

5. The student may at the discretion of the School of Graduate Studies, be required to present a certificate attesting to his physical and mental health. The examination for this certificate will be left to the responsibility of the student.

**Note:**

Students who have been admitted under the cooperative plan before the fall semester of 1952 shall be automatically admitted to candidacy for the master's degree. These students are nevertheless required to file the application for candidacy blank.

## **Requirements for the Degree**

In order to satisfy the requirements for the degree of "Master of Arts," the student must complete satisfactorily a minimum of thirty hours of graduate work with at least a B average. The thesis, which is optional, may be elected for not more than six hours credit.

The thirty hours minimum is subject to the regulations that follow:

### **Curriculum Pattern:**

All students will be required to complete one of the curricula that have been set up as leading to the degree. The details of these curricula have been established in terms of vocational objectives and are described on pages 16-33 of this bulletin.

At least fifteen hours must be earned in courses restricted to graduate students.

Students who started a program of work under the cooperative plan before September, 1952, may, if they desire, complete the required thirty hours for the degree by taking courses recommended under the University sequences.

### **Time Limit:**

Beginning with the summer session of 1954, a student must complete all the work for the master's degree within six consecutive years after the date of his first enrollment in graduate work. Those who enrolled before the summer session of 1954 must complete their work by June 17, 1960.

### **Residence Requirements:**

A minimum of eighteen hours must be taken in on-campus resident credit from the School of Graduate Studies. The remaining twelve hours may be taken in off-campus work. See "Extension Courses" and "Transfer Credit" below.

A student must spend a minimum of one summer session or semester in residence at Western Michigan College before the master's degree will be awarded.

### **Extension Courses:**

A total of twelve hours of approved graduate work may be taken through the Extension Division. These may be counted toward the requirements for the master's degree provided they are approved by the student's curriculum adviser as a part of the student's program of studies.

It is required that all students who are enrolled in graduate extension courses must apply for and receive permission to enroll before credit will be given for the graduate work taken through extension. Permission to enroll for extension courses only may be secured by filing the regular application and an official transcript of the student's undergraduate work with the Graduate Office. Procedures for permission to enroll are outlined on pages 6 and 7 of this bulletin.

### **Transfer Credit:**

All credits earned by the student before September, 1952, under the cooperative arrangements with the University of Michigan will be transferred automatically to Western Michigan College with these reservations:

1. The credits must at the time of transfer be acceptable to the University toward the master's degree.
2. They will be subject to the limit indicated above.
3. The student must assume the responsibility of submitting transcripts of such work not taken through the School of Graduate Studies of Western Michigan College.

After the student has been admitted to candidacy for the degree at Western Michigan College a maximum of six (6) hours of graduate work may be transferred from other graduate institutions toward the master's degree provided such courses are satisfactory elections for the curriculum in which the student is enrolled.

1. In order to be acceptable for transfer, enrollment in courses in other institutions may not be more than six (6) years prior to the date of the granting of the master's degree.

2. In order to assure the acceptance of an extension course from another institution for transfer toward the master's degree a student must request written permission from the Dean for such transfer prior to enrolling in the course.

3. In order for a course to be acceptable for transfer from another institution, a student must have received a grade of at least B in that course.

4. The student must send to the Graduate Office an official transcript of the credits he desires to transfer and request that the credit be applied toward the degree.

## **Student Load:**

### **A. Part-time Students**

Graduate students, if employed during the fall and spring semesters as full-time teachers or school administrators, may elect graduate courses granting not in excess of four hours credit.

1. At the discretion of the Dean, a student may elect graduate courses granting five (5) hours of credit provided such credit shall not involve more than two graduate courses. Such an exception may be granted only once during the work for the master's degree.

2. The restriction to a maximum of four (4) hours applies to all graduate courses a student may elect in one semester whether taken on campus, in extension, and/or at some other institution and offered for transfer credit.

3. A graduate student, during a fall or spring semester, may enroll for the course Ed. 600 Thesis in Education that grants six (6) hours graduate credit. It is assumed that the majority of students who elect this course will require more than one (1) semester to complete the work.

A student may elect the course, Thesis in Education, in units of from two (2) to six (6) hours. This selection may not be made in more than two (2) units and must be made within a calendar year.

### **B. Full-time Students**

A normal load for a graduate student devoting full-time to graduate study shall be twelve (12) credit hours. At the discretion of the Dean, permission may be given to elect graduate courses granting not in excess of fifteen (15) credit hours.

### **C. Summer Session**

All graduate students enrolled in the regular summer session may elect graduate courses granting not in excess of six (6) hours graduate credit. A student may elect a maximum of two (2) hours of graduate credit in the Post-Session Workshops.

## Scholarship

In order to be awarded the master's degree, a student must have earned a point-hour ratio of at least 5.0.

The following numerical equivalents are assigned to grades given in graduate courses in order to compute point-hour ratios:

A+ = 9	B+ = 6	C+ = 3	D = 0
A = 8	B = 5	C = 2	
A- = 7	B- = 4	C- = 1	

All grades of Incomplete (I) will automatically become D unless removed within one calendar year.

This ruling does not apply to the Thesis course—Education 600.

## Graduation

Commencement exercises at which the master's degrees are awarded are held at the end of each semester and summer session. The student is loaned the necessary academic regalia and issued the diploma without charge.

Attendance at commencement exercises is considered to be a requirement of the degree.

## Diploma Applications:

The student must file a diploma application with the Graduate Office at the beginning of the semester or summer session during which he is reasonably certain of completing the degree. Unless the application is filed on time, the awarding of the degree will be deferred until the next commencement.

## Registration

Registration for the summer session, 1957, will take place on Monday, June 24 from 8:00 A.M. to 12:00 M. and from 1:00 P.M. to 4:00 P.M. Classes for the summer session will begin on Tuesday, June 25 and will continue through Friday, August 2. Students will be permitted to enroll on Tuesday, June 25 provided they pay the late enrollment fee of \$5.00. No enrollments will be allowed after this date.

Registration for graduate courses for the fall semester will take place on Saturday, September 21 from 8:00 A.M. to 12:00 M. and from 1:00 P.M. to 4:00 P.M. It will continue from Monday through Friday of the following week during the same hours. Students will be allowed to enroll on Saturday, September 28, but will be charged a late enrollment fee of \$5.00. No enrollments will be allowed after this date. Graduate classes will meet beginning September 23.

Registration for graduate courses for the spring semester will take place on Saturday, February 8 from 8:00 A.M. to 12:00 M. and from 1:00 P.M. to 4:00 P.M. It will continue from Monday through Friday of the following week during the same hours. Students will be allowed to enroll on Saturday, February 15, but will be charged a late enrollment

fee of \$5.00. No enrollments will be allowed after this date. Graduate classes will meet beginning February 10.

Students should consult the **Schedule of Graduate Classes** for time and place of meeting of classes. They should also determine the prerequisites before enrolling in courses. These prerequisites may be found following the course descriptions in this bulletin.

Any changes in graduate enrollment must be made by the end of the third day of the summer session and by the end of the second complete week of the spring and fall semesters. Permission to drop courses may be given through the third week of the summer session and through the sixth week of the spring and fall semesters. Blanks for making such changes in enrollment may be secured at the Graduate Office.

### Tuition and Fees

The following fees will be charged for graduate study.

#### SUMMER SESSION

Sem. Hrs.	Tuition Local Total			Tuition Local Total		
	<u>Resident</u>			<u>Non-Resident</u>		
1 - 2	\$9.00	\$26.00	\$35.00	\$18.00	\$26.00	\$44.00
3 - 4	18.00	26.00	44.00	36.00	26.00	62.00
5 - 6	27.00	26.00	53.00	54.00	26.00	80.00

#### POST-SUMMER WORKSHOPS

Sem. Hrs.	Tuition Local Total			Tuition Local Total		
	<u>Resident</u>			<u>Non-Resident</u>		
1	\$ 4.50	\$13.00	\$17.50	\$ 9.00	\$13.00	\$22.00
2	9.00	13.00	22.00	18.00	13.00	31.00

#### FALL AND SPRING SEMESTERS

Sem. Hrs.	Tuition Local Total			Tuition Local Total		
	<u>Resident</u>			<u>Non-Resident</u>		
1 - 2	\$ 9.00	\$20.00	\$29.00	\$18.00	\$20.00	\$38.00
3 - 4	18.00	26.00	44.00	36.00	26.00	62.00
5 - 6	27.00	32.00	59.00	54.00	32.00	86.00
7 - 8	36.00	38.00	74.00	72.00	38.00	110.00
9 or more	54.00	42.50	96.50	108.00	42.50	150.50

### Fees for Double Registration:

The regulation concerning students taking both graduate and undergraduate work is as follows:

A student taking more graduate hours than undergraduate hours will pay graduate fees for the total number of hours taken in both grad-

uate and undergraduate work. In this instance, the undergraduate enrollment card will be stamped "double enrollment."

A student taking **more** undergraduate hours than graduate hours will pay undergraduate fees for the total number of hours taken in both undergraduate and graduate work. The graduate card will be stamped "double enrollment."

In case the student is taking an equal number of hours in both graduate and undergraduate work, he will pay the higher fee.

## **Refund of Fees:**

### **Summer Session**

A student who withdraws seven calendar days or less after the last official registration day will be entitled to a refund of 90 per cent of the total paid.

No refund will be granted if the student withdraws after the seventh calendar day after the last official registration day of the summer session.

No refunds will be granted unless applied for by the 14th day after the last official registration day of the term in which the student withdraws.

Refunds are not automatic upon withdrawal from college but must be applied for at the Business Office within the prescribed time limits. Clearance must be made with the Graduate Office prior to this time.

### **Fall and Spring Semesters**

A student who withdraws from school will be granted a refund according to the following schedule:

Seven calendar days or less after the last official registration day—90 per cent of the total.

More than seven calendar days and less than twenty-two days after the last official registration day—60 per cent of the total.

More than twenty-one calendar days and less than thirty-six days after the last official registration day—40 per cent of the total.

More than thirty-five calendar days and less than fifty days after the last official registration day—20 per cent of the total.

#### **Note:**

A. No refund will be granted if the student withdraws after the 49th calendar day after the last official registration day.

B. No refund will be granted unless applied for by the 56th calendar day after the last official registration day of the semester in which the student withdraws.

C. Refunds are not automatic upon withdrawal from college but must be applied for at the Business Office within the prescribed time limits. Clearance must be made with the Graduate Office prior to this time.



## **Fees for Applied Music:**

During the regular year, there is a special departmental music fee for Applied Music of \$60.00 per semester for one hour per week of private instruction.

During the summer session, there is a special departmental music fee for Applied Music of \$20.00 per semester hour.

## **Housing**

All questions about room, board, and other living expenses should be addressed to the Dean of Men or Dean of Women, Western Michigan College, Kalamazoo, Michigan.

Graduate students are subject to the rules of the Dean of Men and the Dean of Women and to other general regulations of this institution.

## **Graduate Fellowships**

Ten graduate fellowships are available to selected students holding bachelor's degrees from accredited colleges and universities. These fellowships are granted on the basis of merit, to persons planning to pursue full-time work on the campus leading to the degree of Master of Arts with specialization in Education. Such persons should possess a combination of qualities indicating potential leadership in the field of Education, with specific emphasis on high scholarship and desirable personal attributes.

These graduate fellowships carry a stipend of \$750 for the academic year of two semesters. The fellows are expected to participate in approximately fifteen hours each week of professional activity consistent with their educational aims and objectives. Candidates may elect from eight to twelve semester hours of graduate work each semester. Applications must be filed by March 1, 1957 and may be secured from the Graduate Office.

## **Elmer H. Wilds Graduate Award**

Each calendar year the Graduate Advisory Council may select from among the outstanding graduate students, the one whose achievement and potential bear evidence of outstanding educational leadership. This student will be designated as the **Elmer H. Wilds Scholar**.

In order to be eligible for the Award, a student must have the following qualifications:

1. A point-hour ratio of at least 7.8 for the total graduate program including transferred credit.
2. A high degree of integrity as revealed in the student's relationships with the faculty, and reports of those who work with him.
3. A high moral standard as revealed in the student's personal habits.
4. Attention to personal appearance.

5. A high degree of ability to communicate in class and in conversation.

The award will be honorary and evidenced by a leather folder in which a parchment is enclosed announcing the award and bearing the student's name. It will be awarded at the June commencement.

### **Placement Service Open to Graduate Students**

Many desirable teaching, supervisory, and administrative positions are open each year to candidates in the teaching profession who have had successful experience and advanced scholastic training. The salaries being offered such candidates are excellent.

Graduate students who desire to be eligible for consideration when these positions are available should be properly registered for placement. Any graduate student formerly registered with the Office of Placement and Alumni Relations may keep his permanent placement file active by having current recommendations from employers and professors added to it from time to time. Enrollment in the School of Graduate Studies entitles any student to free placement service whether or not his undergraduate work was taken at Western Michigan College.

Complete information and registration materials may be secured in the office of Placement and Alumni Relations, Room 231, Administration Building.

# Graduate Curricula

When submitting the Application for Admission to Candidacy for the Master's Degree, each student must select from the curricula described on the following pages, the one that meets his professional objective. These curricula are based on programs of courses that have a high degree of functional value. The programs in turn are highly flexible in order to provide for the differing needs of the graduate students.

It is obvious that growth in personality and the development of professional abilities are closely related and are highly important in the education of teachers, supervisors, administrators, guidance specialists and other school personnel. Hence, through the counseling process, graduate advisers will aid the students in choosing courses, both cultural and professional, that meet their individual needs. Courses and experiences should be chosen so that the graduate student becomes a more mature and more professionally proficient person—a person with greater professional skills, increased ability to analyze and interpret life situations, and greater insight into problems involved in professional leadership.

It is well for the student to remember that some of the courses listed may not be offered every semester or summer session. This is especially true of courses offered in the academic departments, namely the cognates. Hence if a cognate course, needed in the student's program of studies, is offered during a certain semester it is wise for the student to elect the course that semester.

Occasionally a student will find that some of the suggested courses are repetitions of what he has already taken at the undergraduate level. In such cases, with the approval of the adviser, substitutions may be made, provided that the general requirements for the master's degree are satisfied. When new graduate courses are offered, they may be included in the program of studies with the approval of the adviser.

All the curricula leading to the Master of Arts degree with the exception of the curricula, Teaching in the Junior College and School Psychologist, follow the same general pattern. The curricula, Teaching in the Junior College and School Psychologist, differ in several respects and are described on pages 25 and 21, respectively. The graduate courses elected for all of them fall into three groups, namely, the following:

- |                  |  |              |
|------------------|--|--------------|
| <b>Group I</b>   | Courses in the Department of Education . . . . .         | 10 sem. hrs. |
| <b>Group II</b>  | Courses in Departments other than<br>Education . . . . . | 10 sem. hrs. |
| <b>Group III</b> | Courses from any Department . . . . .                    | 10 sem. hrs. |

## Courses in Group I

For these curricula, students must elect a minimum of ten semester hours of graduate courses in the Department of Education. The elections will be as follows:

<b>Core Courses</b>		(Elect three) . . . . .	6 hours
Education	501	Educational Research	
	502	The School Curriculum	
	503	Foundations of American Education	
	504	Educational Psychology	

**Electives in Education:** (Elect two) . . . . . 4 hours  
Total — 10 hours

The electives in this group will of course vary. Students interested in elementary education will, in all likelihood, elect four semester hours of graduate courses dealing with the elementary field; those interested in secondary education, with the secondary field. If a student is interested in administration, supervision, curriculum development or teaching it would be assumed that the elections would be oriented toward the area of interest.

A complete list of suitable offerings may be found under the listings for the Education Department on pages 44 to 51. Obviously a student will do well to consult with his adviser for suitable elections.

## Courses in Groups II and III

The graduate curricula differ from one another largely in the courses that are elected in Groups II and III. Under Group II, the student must elect ten semester hours of graduate courses in departments other than Education. In the teaching curricula such as Teaching of Science and Mathematics, Teaching of Music, and Teaching of Business Education, the student will concentrate his elections in the respective academic departments or divisions. In the administrative and supervisory curricula, the student is likely to diversify his elections in the areas that fall under his administrative or supervisory activities, particularly in those in which he has an inadequate background. In the elementary curricula, these elections are likely to be made in academic courses designed especially to broaden the backgrounds of elementary teachers.

Under Group III, the student may elect ten semester hours of graduate courses that will extend his knowledge in areas already elected under Groups I and II. Or, he may decide to elect courses in other departments or divisions in which his background is inadequate. In general, if the student decides to elect the thesis option, the six hours of credit for the thesis will fall in this group.

The student should plan carefully with his adviser in selecting courses in Groups II and III so that he, in his graduate study, may do more than merely accumulate graduate credits.

The various graduate curricula together with their course patterns follow.

# CURRICULUM DEVELOPMENT AND COORDINATION

Orie Frederick, Adviser

This curriculum is designed for elementary and secondary school teachers who are or plan to become heads of departments, supervisors of instruction and curriculum directors.

It is desirable for a student in this curriculum to have a year or two of teaching experience or its equivalent before becoming a candidate for the master's degree.

## I. Courses in Education Department . . . . . 10 hours (See page 17.)

## II. Courses Outside the Education Department . . 10 hours

These courses must be selected with the advice and approval of the graduate adviser from those approved for graduate study in the various divisions of the college. Courses may be chosen from one or more departments or divisions as indicated by the needs of the graduate student in preparing for his or her vocational objective.

## III. Courses from Any Department . . . . . 10 hours

These courses should be selected with the advice and approval of the graduate adviser in such a way as to meet the individual and professional needs of the graduate student. Some courses suggested for consideration are:

Education	411A	Elementary Curriculum
	438	Audio-Visual Education
	481	Techniques of Guidance
	513	Elementary School Supervision
	522	Teaching in the Core Curriculum
	524	Secondary School Administration and Supervision
	530	Improvement of Reading in Secondary Schools
Sociology	540	Social Dynamics of Human Behavior
Voc. Div.	470	Prin. of Practical Arts and Vocational Education

# ELEMENTARY ADMINISTRATION AND SUPERVISION

John A. Buelke, Adviser

It is desirable for a student in this curriculum to have a year or two of teaching experience or its equivalent before becoming a Candidate for the master's degree.

## I. Courses in Education Department . . . . . 10 hours (See page 17.)

## **II. Courses Outside the Education Department . . . 10 hours**

These courses may be selected from the graduate offerings of any of the departments, other than Education, with the advice and approval of the Curriculum Adviser. Some courses suggested for consideration are:

Biology	414	Materials for School Health Education
English	403	Source Materials for Literature in Elementary Grades
Geography	411	Historical Geography of North America
Ind. Arts	464	Industrial Arts for the Elementary School
Librarian	505	Curriculum Enrichment Materials
Science	503	Science for Elementary Teachers
Sociology	540	Social Dynamics of Human Behavior
Speech	406	Public Speaking II

## **III. Courses from Any Department . . . . . 10 hours**

### **GUIDANCE**

Arthur J. Manske, Adviser

It is desirable for a student in this curriculum to have a year or two of teaching experience or its equivalent before becoming a candidate for the master's degree.

#### **I. Courses in Education Department . . . . . 10 hours** (See page 17.)

#### **II. Courses Outside the Education Department . . . 10 hours**

The fields of psychology, sociology and economics should be explored for elections in this group.

Some specific courses suggested for consideration are:

Sociology	540	Social Dynamics of Human Behavior
Speech	406	Public Speaking II
Voc. Educ.	470	Prin. of the Practical Arts and Vocational Education

#### **III. Courses from Any Department . . . . . 10 hours**

### **LIBRARIANSHIP**

Alice Louise LeFevre, Adviser

A basic curriculum preparing the candidate for many types of library positions. Specialization offered in areas of school, public, county and regional library service; including work with children and work with young adults.

**I. Courses in Education Department . . . . . 10 hours**  
(See page 17.)

**II. Courses in Librarianship . . . . . 10 hours**

(Courses 403, 411, 470 and 480 may be taken as part of an undergraduate minor. If not presented in undergraduate transcript, these must be taken on graduate level.)

Libr.	403	Selection of Books and Reading Materials	2 hours
	411	Reference Service	2 hours
	470	Introduction to Classification and Cataloging	4 hours
	460	Library Administration and Organization	2 hours

**III. Additional Courses . . . . . 10 hours**  
(Minimum)

Libr.	*402	Reading Interests of Young Adults	2 hours
	404	Adult Reading Interests	2 hours
	*406	Storytelling	2 hours
	*407	Library Materials for Children	2 hours
	461	School Library Service	2 hours
	480	Field Assignment and Laboratory	2 hours
	*505	Curriculum Enrichment Materials	2 hours
	*509	History of Books and Printing	2 hours
	*510	Adult Education Methods in Libraries	2 hours
	511A	Subject Bibliography: The Humanities and the Social Sciences	2 hours
	511B	Subject Bibliography: The Sciences	2 hours
	560	Public Library Service	2 hours
	562	Foundations of Librarianship	2 hours
	563	Children's Library Services	2 hours
	564	Library Service to Youth	2 hours
	570	Advanced Classification and Cataloging	2 hours
Educ.	600	Thesis	6 hours

The program for each student will be planned in accordance with his individual needs.

\*Starred courses are open to students in other departments.

406 Storytelling is required for students in elementary school curriculum.

**NOTE:**

1. Candidates in this curriculum who have completed the basic required courses, 403, 411, 460 and 470 on the undergraduate or post-

graduate level at an approved college or university may substitute courses from Group III or upon consultation with the graduate adviser may elect related courses from other departments. Some courses suggested are as follows:

Hist.	426	Twentieth Century Britain
	430	The Literature of History
	513	Studies in Michigan History
	519	Studies in Russian History
Pol. Sci.	520	The Elements of Democratic Government
	531	State Government
Eng.	410	Literary Criticism
	413	Studies in the Novel
	422	Studies in American Literature
	522	American Literary Themes
Lang.	402	Mythology
	408A	Contemporary French Literature
	408B	Contemporary French Literature
	427	German Thought Through the Centuries
Soc.	541	Primary Group Dynamics
Speech	501	Group Problem Solving

2. A Field Assignment in one of the selected cooperating school, public, county, regional, or special libraries is required of all students at either the undergraduate or the graduate level. This assignment will be arranged through the graduate adviser.

3. Candidates who elect to write a thesis should consult with the graduate adviser. Education 600 Thesis will be substituted for two electives in Group I and one elective in Group III.

## SCHOOL PSYCHOLOGIST

Stanley Kuffel, Adviser

Students graduating from this program must be certified to teach in the State of Michigan and have a minor in psychology to include courses deemed advisable by the psychology department.

### I. Courses in Education Department . . . 10 hours

Educ.	504	Educational Psychology
	512	Guiding Child Development in the Elementary School
	437	Methods of Teaching Mentally Handicapped Children
	432	Education and Control of Mentally Handicapped



## II. Courses Outside the Education Department . . . 10 hours

Psych.	505	The Deviant Individual
	506	Clinical Diagnosis
	406	Vocational Psychology
	502	Measurements of Interests, Aptitudes and Personality
	507	Measurements of Intelligence

## III. Courses From Any Department . . . 10 hours

Educ.	436	Mental Hygiene of Childhood and Adolescence
Psych.	531	Personality Theory
	532	Individual Testing
	535	Psychological Counseling
	536	Counseling Practicum

### NOTE:

1. The psychology courses deemed advisable for a background in this program include: 305 Abnormal Psychology, 207 Psychology of Personality, 302 Laboratory in Psychological Testing, 308 Elementary Statistical Methods in Psychology, 307 Mental Testing, 301 Elementary Experimental Psychology, 410 Learning and Memory, or their equivalents. They must be taken either at the undergraduate level or made up with additional graduate courses.

2. A minimum of thirty-six hours in courses approved by the State Department of Public Instruction in the areas of sociology, psychology and education, twenty-four of which are on the graduate level, will entitle the student to apply for certification as a school psychologist. The pattern of courses to be followed will be arranged through conference with the adviser.

## SECONDARY SCHOOL ADMINISTRATION AND SUPERVISION

Roy C. Bryan, Adviser

It is desirable for a student in this curriculum to have a year or two of teaching experience or its equivalent before becoming a candidate for the master's degree.

## I. Courses in Education Department . . . 10 hours (See page 17.)

Besides core courses include:

Educ.	524	Secondary School Administration and Supervision
	560	Principles of Educational Administration

## **II. Courses Outside the Education Department . . . 10 hours**

The following are suggested for consideration:

Econ.	525	Public School Finance
	526	Applied Economics for Teachers
Speech	405	Speech for the Classroom Teacher
	406	Public Speaking
	501	Group Problem Solving
Phys. Ed.	501	Current Studies in the Admin. of Physical Education
Geog.	416	Political Geography
Psych.	407	Mental Testing
	502	Measurement of Interest, Aptitude and Personality
	505	The Deviant Individual
	508	Survey of Personal Psychology
Soc.	446	Juvenile Delinquency
	448	Comparative Culture Studies
	540	Social Dynamics of Human Behavior
	541	Primary Group Dynamics
	544	Techniques of Intercultural Adjustment
	545	The Family
Voc. Ed.	470	Principles of Practical Arts and Vocational Education

## **III. Courses from Any Department . . . . . 10 hours**

In selecting courses in Groups II and III, the student should choose at least one course in each of the following areas: human relations, guidance, psychology, teaching methods, and educational philosophy, together with other courses consistent with his personal and professional interests.

## **SPECIAL EDUCATION**

Manley M. Ellis, Adviser

### **I. Courses in Education Department . . . . . 10 hours** (See page 17.)

### **II. Courses Outside the Education Department . . . 10 hours**

Required Courses in Industrial Arts . . . . . 4 hours

463	Arts and Crafts for Teachers
464	Industrial Arts for the Elementary School

The following are especially recommended:

Sociology	442	Social Pathology and Personal Deviation
	446	Juvenile Delinquency and the Community
	540	Social Dynamics of Human Behavior
Psychology	505	The Deviant Individual
	507	Measurements of Intelligence

### III. Courses from Any Department . . . . . 10 hours

Education 570 Directed Teaching . . . . . 4 hours  
(Must be done in the field of special education  
in which the student intends to teach.)

#### Specific Courses

#### Education and other departments:

- A. Teachers of Crippled Children . . . . . 6 hours
  - B. Teachers of Deaf and Hard-of-Hearing Children 12 hours
  - C. Teachers of Blind Children . . . . . 8 hours
  - D. Teachers of Partially Seeing Children . . . . . 8 hours
  - E. Teachers of Epileptic Children . . . . . 4 hours
  - F. Teachers of Children of Lowered Vitality . . . . . 4 hours
  - G. Teachers of Homebound Children . . . . . 4 or 6 hours  
(Teachers of homebound children should qualify in the  
education either of crippled children or of those of lowered  
vitality.)
  - H. Teachers of Socially Maladjusted Children . . . . . 6 hours
  - I. Teachers of Mentally Handicapped Children . . . . . 8 hours
- Educ. 432 Education and Control of Mental Deviates  
434 Mental Deficiency  
437 Methods of Teaching Mentally Handi-  
capped Children

#### NOTES:

1. In electing Specific Courses the student will follow directions, under guidance, of latest edition of Michigan State Department of Public Instruction Bulletin, "Educational Requirements for Teachers of Exceptional Children," pp. 2, 3. Specific courses for all categories, except Teachers of Mentally Handicapped Children, must be taken at other approved colleges under combined guidance of counselors at the college selected and at Western Michigan College.

2. Certain courses in Group II may be substituted for those named if such courses are equivalent to those listed on p. 4, "Educational Requirements for Teachers of Exceptional Children."

3. If the student has acceptable undergraduate credit in, or equivalent of, any of the above, except the three required core courses, he may, under guidance, substitute other courses for those named.

4. In some cases where the student can produce evidence of several years of successful teaching of the type of handicapped children he is preparing to teach, he may be allowed to substitute, under guidance, other courses for 570 Directed Teaching.

## TEACHING IN THE ELEMENTARY SCHOOL

William Engbretson, Adviser

- I. Courses in Education Department . . . . . 10 hours  
(See page 17.)

- II. Courses Outside the Education Department . . 10 hours

Some courses suggested for consideration by the student because of their close relationship to the elementary school program are:

Biology	414	Materials for School Health Education
English	403	Source Materials for Lit. in Elem. Grades
Geography	411	Historical Geography of North America
Ind. Arts	464	Industrial Arts for the Elementary School
Libr.	505	Curriculum Enrichment Material
Science	503	Science for Elementary Teachers
Sociology	540	Social Dynamics of Human Behavior
Speech	405	Speech for the Classroom Teacher

- III. Courses from Any Department . . . . . 10 hours

## TEACHING IN THE JUNIOR COLLEGE

William C. VanDeventer, Adviser

- I. Courses of a Professional Nature . . . . . 6 hours

Education	501	Educational Research . . .	2 hours
	551	Growth and Development in Later Adolescence . . .	2 hours
	590	The Community College . . .	2 hours

- II. Courses in the Major Academic Field . . . 14-16 hours

The courses in these areas would be offered by one department such as chemistry, history, English or mathematics. It would be assumed that the student would have an undergraduate major in this area.

- III. Courses in the Minor Area  
(Related to the Major Area) . . . . . 8-10 hours

It would be assumed that the courses in this area would be based on at least a minor at the undergraduate level, but they should be related to the major field. For example, the area might be political science, economics or sociology, with a major area of history. It might be a minor of mathematics with a major of physics, or a minor in psychology with a major in biology. The minor area would enable the person to teach the introductory or survey courses in a field in addition to teaching his specialized departmental courses. Obviously certain flexibility would be necessary in order to handle the needs of individuals.

# TEACHING IN THE JUNIOR HIGH SCHOOL

Clara R. Chiara, Adviser

## I. Courses in Education Department . . . . . 10 hours (See page 17.)

Besides core courses include:

Educ.	420	The Junior High School
	522	Teaching in the Core Curriculum

## II. Courses Outside the Education Department . . . 10 hours

Graduate courses especially designed as background preparation for junior-high-school teaching are in the process of development. Meanwhile, the following courses are suggested for consideration by students in this curriculum:

Art	503	Creative Arts for Secondary Teachers
Music	403	Psychology of Music Education
Eng.	522	American Literary Themes
	426	Structure of Modern English
Lang.	407	The Central European Area
Speech	405	Speech for the Classroom Teacher
	501	Group Problem Solving
Science	571	The Teaching of Science
Biol.	414	Materials for School Health Education
Geog.	441	Historical Geography of North America
Psych.	505	The Deviant Individual
Econ.	526	Applied Economics for Teachers
Soc.	540	Social Dynamics of Human Behavior
Lib.	402	Reading Interests of Young Adults
	505	Curriculum Enrichment Materials

## III. Courses from Any Department . . . . . 10 hours

# TEACHING OF ART

Students in this curriculum must have completed at least twenty-five semester hours of undergraduate courses in Art, or the equivalent.

Harry S. Hefner, Adviser

## I. Courses in Education Department . . . . . 10 hours (See page 17.)

## II. Courses in Fine Arts and Practical Arts . . . 10 hours

Unless taken previously, the following courses in the Art Department are required:

Art	410	Painting
	414	Advanced Commercial Art
	441	Art Supervision
	501A	Studio Course in Art
	501B	Studio Course in Art

The remainder of the ten hours may be chosen from the following courses:

Home Econ.	439	Consumer Buying
Ind. Arts	405A	Problems in Woodworking
Ind. Arts	405B	Problems in Woodworking
O. T.	425	Ceramics and Jewelry
Other art courses when added to graduate offerings		

### III. Courses from Any Department . . . . . 10 hours

## TEACHING OF BUSINESS EDUCATION

George K. Cooper, Adviser

### I. Courses in Education Department . . . . . 10 hours (See page 17.)

### II. Courses in Business Studies . . . . . 10 hours

These courses must be selected from those courses approved for graduate work in Business Studies.

### III. Courses from Any Department . . . . . 10 hours

## TEACHING OF DISTRIBUTIVE EDUCATION

George E. Kohrman, Adviser

Students desiring to work toward the degree of Master of Arts with specialization in Distributive Education must qualify for a vocational certificate as a coordinator in the field of Distributive Occupations.

### I. Courses in Education Department . . . . . 10 hours (See page 17.)

### II. Courses in Distributive Education . . . . . 10 hours

Voc. Educ.	470	Principles of Practical Arts and Vocational Education
Distr. Educ.	410	Organization and Operation of Distributive Education

420	Teaching Techniques in Distributive Education
425	Instructional Materials in Distributive Education
430	Coordination Techniques in Distributive Education

(If any of the above courses have been taken previously, other courses in Distributive Education may be selected upon the advice of the graduate adviser)

### III. Courses from Any Department . . . . . 10 hours

A student must elect Vocational Education 520 — Occupational Laboratory Experience in this group if it has not been taken previously.

## TEACHING OF HOME ECONOMICS

Eunice E. Herald, Adviser

Students who desire to work toward the master's degree with specialization in the teaching of home economics subjects must have completed a major or minor in this field.

### I. Courses in Education Department . . . . . 10 hours (See page 17.)

### II. Courses in Home Economics . . . . . 10 hours

Voc. Educ. 470 Prin. of Practical Arts and Vocational Education

The other eight hours must be selected from those courses approved for graduate study in the Home Economics Department.

### III. Courses from Any Department . . . . . 10 hours

## TEACHING OF INDUSTRIAL EDUCATION

George E. Kohrman, Adviser

This curriculum is designed for teachers and supervisors of industrial arts subjects, and vocational-industrial teachers, supervisors, and coordinators.

Students who plan to work towards the master's degree in this curriculum, Industrial Education, must have completed at least a minor in undergraduate courses in this field.

### I. Courses in Education Department . . . . . 10 hours (See page 17.)

**II. Courses in Industrial Education . . . . . 10 hours**

Voc. Educ.	470	Prin. of Practical Arts and Vocational Education
Ind. Educ.	472	Course Planning and Construction
	551	Trends in Industrial Arts

The other four hours must be selected from those courses approved for graduate study in Industrial Education.

**III. Courses from Any Department . . . . . 10 hours**

## **TEACHING OF LITERATURE AND LANGUAGE**

Frederick J. Rogers, Adviser

This curriculum is planned to prepare teachers of the Language Arts for Secondary Schools. Students who elect this program should have a good foundation in Literary Interpretation, and in English and American Literature.

**I. Courses in Education Department . . . . . 10 hours**  
(See page 17.)

**II. Courses in English, Languages, and Speech . . 10 hours**

These courses must be selected from those approved for graduate study in the Division of Languages and Literature. The courses are found in Departments of English, Languages, and Speech.

**III. Courses from Any Department . . . . . 10 hours**

## **TEACHING OF MUSIC**

Elwyn F. Carter, Adviser

This curriculum is designed for students who wish to continue their studies in the field of Music Education.

The student should have graduated with a Music Major in his undergraduate degree to obtain permission to work for the master's degree in this curriculum. If the student lacks the necessary preparation to enter courses at the graduate level he may be required to enroll for certain undergraduate courses.

**I. Courses in Education Department . . . . . 10 hours**  
(See page 17.)



**II. Courses in the Music Department . . . . . 10 hours**

Unless taken previously, the following courses in the Music Department are required:

Music	401	Philosophy and History of Music Education
	403	Psychology of Music Education
	560	Seminar in Music Education

The remainder of the ten hours should be selected from courses approved for graduate study in the Music Department, keeping in mind individual and professional needs.

**III. Courses from Any Department . . . . . 10 hours**

## **TEACHING OF OCCUPATIONAL THERAPY**

Marion R. Spear, Adviser

This course is designed to give a master's degree to Occupational Therapists who can present a bachelor's degree and who desire advanced training to prepare them to train and teach Occupational Therapists or to qualify themselves for administrative positions.

**I. Courses in Education Department . . . . . 10 hours**  
(See page 17.)

**II. Courses in the Occupational Therapy Department 10 hours**

The student will select 10 hours from courses approved for graduate study in the Occupational Therapy Department, according to previous experience and needs.

**III. Courses from Any Department . . . . . 10 hours**

## **TEACHING OF PHYSICAL EDUCATION**

Mitchell J. Gary, Adviser

This curriculum is planned for both men and women who wish to specialize in physical education. Students in this curriculum must have completed at last a minor in undergraduate courses in physical education or the equivalent.

**I. Courses in Education Department . . . . . 10 hours**  
(See page 17.)

**II. Courses in the Division of Physical Education,  
Health and Recreation . . . . . 10 hours**

These courses must be selected from those approved for graduate study in the Division of Physical Education, Health, and Recreation.

**III. Courses from Any Department . . . . . 10 hours**

# TEACHING OF SCIENCE AND MATHEMATICS

Gerald Osborn, Adviser

This curriculum is planned for students whose teaching interests lie in one or more fields of the Division of Science and Mathematics.

A student wishing to work toward the master's degree in this curriculum must have completed at least a minor in one of the departments mentioned above or must have satisfied a group minor in the Division of Science and Mathematics. If a student lacks the background knowledge required for a given course, he may be asked to audit a prerequisite course.

I. Courses in Education Department . . . . . 10 hours  
(See page 17.)

II. Courses in the Division of Science  
and Mathematics . . . . . 10 hours

These courses must be selected from those approved for graduate study in the Division of Science and Mathematics. They may be taken in one department or spread over two departments in the division. 401 Teaching of Secondary Mathematics, 571 The Teaching of Science, or any other graduate course in methods listed in this division may be included.

III. Courses from Any Department . . . . . 10 hours

## TEACHING OF SPEECH

A. Speech Correction Program, Charles Van Riper, Adviser

I. Courses in Education Department . . . . . 10 hours

II. Courses in the Speech Department . . . . . 10 hours  
(At least one from each sub-group)

- |           |     |  |
|-----------|-----|--|
| 1. Speech | 452 | Stuttering and Allied Disorders                      |
|           | 453 | Applied Speech Correction                            |
|           | 554 | Teaching of Speech Correction                        |
| 2. Speech | 441 | Utilization of Radio and Recordings in the Classroom |
|           | 442 | Teachers' Workshop in Radio                          |
| 3. Speech | 406 | Public Speaking II                                   |
|           | 408 | Direction of Forensic Activities                     |
|           | 409 | Persuasion   |

III. Courses from Any Department . . . . . 10 hours

The following are suggested: (At least one from each sub-group)

1. Education

- |       |     |                             |
|-------|-----|-----------------------------|
| Educ. | 534 | Advanced Audiometry         |
|       | 433 | Introduction to Lip Reading |
|       | 600 | Thesis in Education         |

- |           |     |                                  |
|-----------|-----|----------------------------------|
| 2. Speech | 405 | Speech for the Classroom Teacher |
|           | 451 | Basic Voice and Speech Science   |
|           | 456 | Speech Therapy                   |
|           | 555 | Public School Speech Correction  |
3. Other departments or divisions  
(Consider:
- |        |     |   |
|--------|-----|---|
| Psych. | 410 | Learning and Memory                     |
| Soc.   | 442 | Social Pathology and Personal Deviation |
|        | 540 | Social Dynamics of Human Behavior       |

**B. General Speech Program, Zack York, Adviser**

**I. Courses in Education Department . . . . . 10 hours**

**II. Courses in the Speech Department . . . . . 10 hours**  
(At least one course from each of the following areas)

**1. Speech Education**

- |        |     |  |         |
|--------|-----|--|---------|
| Speech | 401 | Teaching Speech in the Elementary School . . . . . | 2 hours |
|        | 404 | Creative Dramatics for Children . . . . .          | 2 hours |
|        | 408 | Direction of Forensic Activities . . . . .         | 2 hours |
|        | 499 | Teaching Speech in the Secondary School . . . . .  | 3 hours |
|        | 591 | School Assemblies and Community Programs . . . . . | 2 hours |

**2. Public Address**

- |        |     |  |         |
|--------|-----|--|---------|
| Speech | 406 | Public Speaking . . . . .                    | 2 hours |
|        | 501 | Group Problem Solving . . . . .              | 2 hours |
|        | 502 | Speech and Social Control . . . . .          | 2 hours |
|        | 526 | Public Address in American Society . . . . . | 2 hours |

**3. Oral Interpretation, Drama and Radio**

- |        |     |   |         |
|--------|-----|---|---------|
| Speech | 415 | Acting . . . . .                                | 2 hours |
|        | 421 | Workshop in Dramatics . . . . .                 | 4 hours |
|        | 441 | Radio in Education . . . . .                    | 2 hours |
|        | 442 | Workshop in Radio . . . . .                     | 4 hours |
|        | 516 | Interpretation of Dramatic Literature . . . . . | 2 hours |

**III. Courses from Any Department . . . . . 10 hours**

Because of the broad responsibilities of the speech teacher in most schools, it is recommended that courses in English, psychology and the social sciences, as well as speech and speech correction, be taken in this group.

# TEACHING OF THE SOCIAL SCIENCES

Leonard C. Kercher, Adviser

This curriculum is designed for students whose professional interests lie in one or more of the fields comprising the Division of Social Sciences.

For permission to work for the master's degree in this curriculum the student must present at least twenty semester hours of undergraduate work in the combined fields of Economics, History, Philosophy, Political Science, and Sociology. If the student lacks the necessary preparation to enter courses on the graduate level, he may be required by the department concerned to audit background courses.

I. Courses in Education Department . . . . . 10 hours  
(See page 17.)

II. Courses in the Division of Social Sciences . . . 10 hours

These courses must be selected from those approved for graduate study in the Division of Social Sciences. They may be concentrated largely in one department or spread over a maximum of three departments in the Division.

III. Courses from Any Department . . . . . 10 hours

# *Description of Graduate Courses*

Two types of courses are offered in the School of Graduate Studies; (1) Those bearing numbers 500 and above and open only to graduate students, and (2) those bearing 400 numbers and open to both upperclassmen and graduate students. In all courses open to both upperclassmen and graduates, a distinction is made between the work expected from graduate students and that from undergraduates. The work expected from graduates may be of higher quality or greater quantity or both. This applies to courses offered in extension as well as in residence. The student should consult the Schedule of Classes for hours, days of week, and places of meeting for all classes.

## **GRADUATE STUDIES**

*For Graduates Only*

### **610 Professional Individual Studies      2 hrs. Summer, Fall, Spring**

Designed for highly qualified advanced graduate students who wish to pursue individual studies or projects under the direction of a member of the graduate faculty. May be elected in any department or division with permission of the student's graduate adviser and of the faculty member under whom the student desires to work. Prerequisite: Acceptance for Candidacy for the Master's Degree. (Application forms may be obtained at the Graduate Office.)

### **611 Professional Individual Studies      2 hrs. Summer, Fall, Spring**

A continuation of Graduate Studies 610. May be elected in any department or division with permission of the student's graduate adviser, Dean of the School of Graduate Studies, and the faculty member under whom the student desires to work. Prerequisite: Acceptance for Candidacy for the Master's Degree, and completion of Graduate Studies 610 with superior accomplishment. (Application forms may be obtained at the Graduate Office.)

### **612 Professional Field Experience      2-6 hrs. Summer, Fall, Spring**

Designed for highly qualified graduate students who wish to pursue internships or apprenticeships in off-campus activities in industries, institutions or field work. May be elected in any department or division with permission of the student's graduate adviser, a faculty sponsor and the Dean of the School of Graduate Studies. Prerequisite: An outline of the purposes of the student's internship or apprenticeship. (Application forms may be obtained at the Graduate Office.)

## ART

Hefner, Head; Professor Siedschlag; Associate Professor Kemper; Assistant Professors Paden, Phillips and Smutz.

For Graduates and Upperclassmen

### 410 Painting 2 hrs. Fall

Painting of still life and landscape, in the studio and outdoors. Water colors are used. The course involves the study of composition, color value, and technique. Prerequisite: Art Structure 106, Elementary Design 105, Art Composition 208, or consent of instructor.

### 414 Advanced Commercial Art 3 hrs. Summer

Emphasizes typographic layout, booklet design, letterheads, mailing pieces, packaging and display design and construction. Covers technical methods essential to commercial art. Prerequisite: Commercial Art 214 or equivalent.

### 441 Art Supervision 3 hrs. Spring

A study of the curriculum and its needs in art activities. A course of study will be outlined and administration problems discussed. Prerequisite: Art Structure 106, Elementary Design 105, Art Composition 208, History of Art 213A, B, Commercial Art 214 or equivalents.

For Graduates Only

### 501A Studio Course in Art 4 hrs. Summer, Fall, Spring

Advanced art problems or projects creatively conceived and executed to fulfill student or college needs; such as sculpture and murals.

### 501B Studio Course in Art 2 hrs. Summer, Fall, Spring

A continuation of 501A.

### 502 Workshop in Art for Elementary Teachers 2 hrs. Summer, Fall

Provides the foundations of art for elementary teachers who have little or no work in the area. Emphasizes handwork and use of scrap material.

### 503 Creative Arts for Secondary Teachers 2 hrs. Spring

Designed for the teacher who is not an art specialist. Survey of art materials, methods and techniques related to the instructional and learning process for secondary students with emphasis on the junior-high-school level.

## BIOLOGY

Van Deventer, Head; Professors Bartoo, Hinds, Steen and Wiseman; Associate Professor Fuller; Assistant Professors Carter, Jackson and VanderBeek.

**405 Advanced Studies in Genetics** 2 hrs. Spring

Special problems in genetics with emphasis on laboratory work. Prerequisite: Biology 305 or its equivalent.

**410 Economic Botany** 3 hrs. Fall

A course dealing with plants useful to man for food, flavoring, drugs, cloth and building purposes. A knowledge of plant life of economic value useful to both elementary and secondary teachers is emphasized. Desirable also for students in business and industrial education. Prerequisite: Permission of the instructor.

**414 Materials for School Health Education** 2 hrs. Fall

Emphasis is placed on the effective health supervision of school children, the principles and practices of health teaching in the various grades, and the interrelation of this teaching to other subjects in the curriculum.

**415 Problems of Alcohol Education** 2 hrs.

Explores the problems associated with drinking alcoholic beverages such as physiological and psychological effects, treatment of alcoholism, and alcohol education in schools. Not offered 1957-58.

**420 Flowering Plants** 2 hrs. Spring

An advanced course in field study and identification of flowering plants. Students will be expected to use keys for identification and assemble a herbarium collection for their own use. Prerequisite: eight hours of biology.

**421 Parasitology** 2 hrs.

A study of animal parasites, internal and external, their classification, life histories and ecological relationships. Emphasis is placed on parasites of man and domestic animals. Prerequisite: Biology 100A and B or equivalent. Not offered 1957-58.

**422 Insect Study** 2 hrs.

A study of insects, their identification and life histories. Emphasis is placed on those species having economic importance and relationships to human health. Prerequisite: Biology 100A and B or equivalent. Not offered 1957-58.

**423 Fossil Plants** 2 hrs. Spring

Intended to give the student a knowledge and appreciation of plant life of the past. Plant fossils most commonly found in and around Michigan are the subjects of discussion from the standpoint of identification and classification, as well as from that of their structure. At least two extended field trips are arranged during the semester. Prerequisite: twelve hours of biology including Biology 222, The Plant Kingdom.

**440 Mammalogy****2 hrs.**

A study of mammals, their identification, habits, life histories, ecological relationships, economic importance and conservation, with emphasis on North American forms. Prerequisite: Biology 100A and B or equivalent. Not offered 1957-58.

**441 Advanced Ornithology****2 hrs. Spring**

Investigation of details of song, habitat, habits and identification of shore and marsh birds in their native haunts. Skins of birds of Michigan, both resident and migrant, are provided for identification. Prerequisite: 8 hours of college laboratory courses in biology and permission of instructor.

**456 Biology of Blood****2 hrs.**

This consists of laboratory experience with pertinent commentary on practice and principles in hematology and immunology. Normal blood will be studied, as well as some of the common abnormal conditions. There will be extensive work in serology derived from an understanding of antigen-antibody relationships and hypersensitivity. Prerequisite: twelve hours of college biology or consent of instructor. Not offered 1957-58.

**For Graduates Only****500 Recent Advances in Biology****2 hrs. Summer**

Students will be expected to survey extensively current literature in biology at the popular and semi-technical levels, and to report this in the form of an acceptable paper. Minimum prerequisite: Eight hours of college biology and consent of the instructor.

**508 History of Biology****2 hrs. Spring**

Designed to give to graduate students, in addition to an understanding of scientific attitude and methodology, a knowledge of major trends and landmarks in the development of biological science.

**513 Advanced Health Problems****2 hrs.**

Students will be expected to carry on supervised investigation of specific health problems. The investigation should culminate in the preparation of an acceptable paper. Minimum prerequisite: Two semesters of health or biology and consent of the instructor. Not offered 1957-58.

**520 Plant Taxonomy****2 hrs. Summer**

Designed for those interested in carrying on investigations in the identification, classification and ecological distribution of higher plants. Students should have some knowledge of plant classification and plant families. They should be able to use standard plant keys and should be familiar with the organization of a herbarium. Time will be spent



working out field problems in special areas of interest, selected after consultation with the instructor. Prerequisite: the equivalent of an undergraduate minor in biology.

**526 Advanced Studies in Plant Physiology** **2 hrs. Fall**

An advanced course in plant physiology covering such topics as photosynthesis, respiration, tropisms, plant-growth regulators and enzymes. This course is especially adapted to those students who expect to teach biology at the college level, but whose past training has been largely in the field of animal or general biology. Students are required to carry out individual investigations. Prerequisite: twelve hours of biology including Biology 220 or its equivalent. A knowledge of chemistry is desirable.

**530 Conservation in the Schools** **2 hrs. Spring**

Stresses the problems of human, soil, forest, water, and mineral conservation. Prerequisite: Eight hours of college biology or human geography and consent of instructor.

**553 Advanced Studies in Field Ecology** **2 hrs.**

This course is designed for students who have had sufficient experience in field biology to enable them to carry on studies of specific ecological problems in the field. Prerequisite: twelve hours of college biology. Not offered 1957-58.

## **BUSINESS STUDIES**

Schneider, Head; Associate Professors Beal, Burdick, Cooper, Healey, Lindquist, Null, Trader and Wetnight; Assistant Professors Anderson, Kirby, McBeth and Niemi.

### **For Graduates and Upperclassmen**

**410A Advanced Accounting** **3 hrs. Fall**

This course is designed specifically for the balance sheet accounts. Also included will be corporations and determination of net income. Prerequisite: Accounting 210B.

**410B Advanced Accounting** **3 hrs. Spring**

This is a study of accounts for special sales, consolidations and miscellaneous accounting methods.

**411 Cost Accounting** **3 hrs. Spring**

The relation of cost accounting to management for control; general principles involved in constructing a cost system; distribution of cost materials, labor and burden; cost records; operating reports. Prerequisite: Accounting 310A or consent of instructor.

**412 Income Tax Accounting** 3 hrs. Summer, Fall

Federal income tax laws, social security and payroll tax retabulations as they apply to old-age benefits. Prerequisite: Accounting 310A, or consent of instructor.

**423 Life Insurance** 2 hrs. Fall

Deals with the place of life insurance in the over-all financial picture of economic life of the nation. Covers life insurance, not only from its consumer aspects, but also as a vocational field.

**433 Business Report Writing** 2 hrs. Summer, Fall, Spring

A study of the techniques in and applications of management reports and management-report writing. Actual management reports in the various fields will be studied.

**436 Personnel Administration** 3 hrs. Summer, Fall, Spring

The duties of the personnel staff, personnel office, records and reports, interviewing, counseling, adjustment of complaints, job analysis, job classification, in-service training and upgrading of employees. Prerequisite or concurrent: Psychology of Personality 207.

**439 Office Management** 3 hrs. Spring

Areas of office services from the managerial viewpoint. A brief overview of the problems of organizing, constructing, installing and maintaining office systems.

**440 Advanced Salesmanship** 2 hrs. Summer, Spring

A detailed course with background of basic principles and analysis of selling techniques applied principally to specialty fields.

**442 Advanced Advertising** 3 hrs. Summer, Spring

A detailed course with special concentration on media, copy and layout. Study and projects on radio, television, newspapers and magazines.

**For Graduates Only**

**501 Principles of Business Education** 2 hrs. Summer

Principles of business education and their implications for the teachers of business subjects. A study of objectives, guidance, occupational research, extra-curricular activities and the growth of business education in the United States.

**502 Curriculum in Business Education** 2 hrs. Fall

Principles, practices and problems involved in the evaluation and construction of business curricula.

**503 Improvement of Instruction in Shorthand and Secretarial Business Subjects** 2 hrs. Spring

A study of the latest research findings, materials, teaching procedures, tests, and measurements, and possible future development in shorthand.

**504 Improvement of Instruction in Typewriting** 2 hrs. Summer

A study of the latest research findings, materials, teaching procedures, tests and measurements, and possible future developments in typewriting.

**505 Improvement of Instruction in Bookkeeping and General Business Subjects** 2 hrs.

A study of the latest research findings, materials, teaching procedures, tests and measurements, and possible future developments in the business subject-matter of this field. Not offered 1957-58.

**506 Organization and Teaching of Office Practice** 2 hrs.

A consideration of aims and content of office-practice courses in the secondary school, with plans and techniques for organizing and teaching the subject-matter of the course and its laboratory material. Not offered 1957-58.

**CHEMISTRY**

Osborn, Head; Meyer, Acting Head; Professor Knowlton; Associate Professors Boynton and Iffland; Assistant Professor Nagler.

**For Graduates and Upperclassmen**

**403A Physical Chemistry** 3 or 5 hrs. Fall

Covers kinetic theories of gases, liquids, solids, solutions, thermodynamics, physical basis for molecular structure, thermo-chemistry, homogeneous equilibria, heterogeneous equilibria, etc. Prerequisite: Quantitative Analysis 202, Physics 203A, B; College Algebra and Analytic Geometry 104A, B or equivalent; and Calculus 205A, B.

**403B Physical Chemistry** 3 or 5 hrs. Spring

A continuation of course 403A. Covers radioactivity, quantum theory, atomic structure, conductance of solutions, pole potentials, oxidation potentials, polarization, chemical thermodynamics, and colloids. Prerequisite: Physical Chemistry 403A.

**406 Qualitative Organic Analysis** 2 or 3 hrs. Fall

A course in the methods of identification of organic compounds in the pure state and in mixtures which has as secondary goals the familiarization with many organic reactions and the development of deductive reasoning in the field of organic chemistry.

**408 History of Chemical Theory****2 hrs. Spring**

This course is taught from the point of view of the history of chemical theory in which the evidence for the theories is critically presented. Prerequisite: two years of college chemistry.

**496A Organic Preparations****2 hrs. Fall**

Methods for preparing the aliphatic compounds with an effort to produce the maximum yield at the minimum of expense. Theoretical interpretations of facts are sought. Classroom, one hour a week; laboratory, ten hours a week. Consult instructor before enrolling.

**496B Organic Preparations****2 hrs. Spring**

Methods of preparing the aromatic organic compounds. Classroom, one hour a week; laboratory, ten hours a week. Consult instructor before enrolling.

**497A Special Problems in Chemistry****2 hrs. Fall**

Advanced students who have completed certain basic work in chemistry may select a special problem in the fields of analytical, organic or physical chemistry. Prerequisite: Chemistry 202, 306B and 403A.

**497B Special Problems in Chemistry****2 hrs. Spring**

A continuation of special problem work started under 497A.

**DISTRIBUTIVE EDUCATION**

Trimpe, Head; Associate Professor Dannenberg.

For Graduates and Upperclassmen

**410 Organization and Operation of Distributive Education 2 hrs. Fall**

Deals with the organization and operation of distributive education in relation to the total educational program. Consideration is given to advisory committees and local, state and federal relationships.

**420 Teaching Techniques in Cooperative Education 2 hrs. Fall**

This course deals with the methods and techniques used in teaching the related subjects to students on cooperative work-study programs. Special emphasis will be given to group and individual methods of instruction.

**430 Coordination Techniques in Cooperative Education 2 hrs. Summer, Spring**

A study of the duties and responsibilities of the coordinator. Includes the organization of training programs, supervision of trainees on the job and the development of working relationships among the school, business and home.

**510 Job Supervisory Training****2 hrs. Spring**

Covers the techniques and skills used in supervision of employees. Deals with conference leading, how to train, how to develop the skills of leadership and the corrective interview.

## ECONOMICS

Moore, Head; Professors Bigelow, Bowers and Carlson.

For Graduates and Upperclassmen

### 420 Public Finance 3 hrs. Fall

A study of government expenditure, revenues, debts and problems of fiscal administration. Prerequisite: Principles of Economics 220A, B. Work in government may be substituted in special cases by permission of the instructor.

### 421A Labor Problems 2 hrs. Fall

An analysis of the nature and underlying causes of the problems facing the worker in modern economic society. Prerequisite: Principles of Economics 220A, B.

### 421B Labor Problems 2 hrs. Spring

A study of the methods by which workers, employers and the public have been and now are attempting to solve labor problems. Present programs are evaluated in the light of underlying economic principles. Prerequisite: Labor Problems 421A.

### 422 Corporations 3 hrs. Fall, Spring

A study of the nature of the modern business corporation and its place in modern business life. Consideration is given to problems of organization, direction, finance and control. Prerequisite: Principles of Economics 220A, B.

### 423 Collective Bargaining 3 hrs. Fall

An analysis of the major problems in present-day collective bargaining including the negotiation of collective agreements, the practical aspects and the economic implications. Prerequisite: Labor Problems 421A, B, or the consent of the instructor.

### 424 International Economics 2 hrs. Spring

Covers international relations with special emphasis on the fundamentals of international trade theory and the impact of national economic policies on international relations. Prerequisite: Principles of Economics 220A and B.

### 425 Consumption and Standards of Living 2 hrs. Fall

A comparative study of standards and levels of living, designed to acquaint the student with the ways people actually live in different types of communities and various economic levels. Prerequisite: Principles of Economics 220A, B or consent of the instructor.

### 426 Business and Government 3 hrs. Summer, Fall

A study of the regulatory policies of government and their impact on private enterprise. Explains the need for regulation and provides

an analysis and evaluation of the various laws from the viewpoint of encouragement, subsidization and control. Prerequisite: Principles of Economics 220A, B. Work in Political Science may be substituted by permission of the instructor.

**427 History of Economic Thought** **2 hrs.**

Gives the student the historical background for modern economic thinking. Beginning with the leaders of ancient economic thought, the main currents of such thinking are brought down through feudalism, mercantilism, the physiocrats, Adam Smith's influence, the English classical school, socialistic tendencies, and the controversial theories of the present experimental era. Prerequisite: 9 semester hours in Economics. Not offered 1957-58.

**428 Comparative Economic Systems** **2 hrs. Summer, Spring**

The economic institutions and the conditions of capitalism, socialism, communism, fascism and the cooperative movement are critically examined as to ideology and actual operation. Prerequisite: Principles of Economics 220A, B.

**429 Business Administration** **3 hrs. Summer, Fall, Spring**

Covers the elementary principles of internal organization and management of industrial enterprises. Includes plant location and construction; material equipment and power; planning and routing; accounting; market methods; production management; personnel administration; purchasing, traffic, credit and collections. Prerequisite: Principles of Economics 220A, B.

**430 Modern Economics** **3 hrs. Fall, Spring**

A one-semester survey course designed for students who do not intend to major or minor in economics and hence do not take 220A and B. The basic economic principles necessary for a better understanding of present-day economic problems are illustrated by current developments. This course should be of value to prospective teachers, graduate students, and others who have the opportunity for only one beginning course in economics. Credit in either 220A or 220B will preclude credit in 430.

**For Graduates Only**

**524 Economic Problems** **2 hrs. Fall**

Some contemporary economic problems in such areas as economic security, labor relations, finance matters related to public expenditures and taxation, governmental controls, and balance between freedom and order are analyzed and studied. Some previous work in economics is desirable but not mandatory.

**525 Public School Finance** **2 hrs. Spring**

Considers school expenditures, sources of revenue, principles of budget making, techniques of borrowing, bonding, tax allocations, and

similar financial problems facing school administrators. These factors are related to public revenues and expenditures.

**526 Applied Economics for Teachers 2 hrs. Summer, Spring**

Designed as a modern aid to in-service teachers and others who desire practical help in managing some of their economic affairs which are more personal than professional. Among items stressed are credit buying, savings, insurance programs, home ownership vs. renting, personal investments, taxes, wills, and trust plans.

**EDUCATION**

Griggs, Head; Professors Bryan, Buelke, Carter, Chiara, Ellis, Frederick, McClure, Mallinson, Manske, Norrix and Swickard; Associate Professors Engbretson, Govatos, Hunt, Mowrer, Schroeder and Snow; Assistant Professors Adams, Boot, McGinnis and Thea.

**402 Curriculum Workshop 2 hrs.**

Opportunity is provided for teachers, supervisors and administrators in selected school systems to develop programs of curriculum improvement. A wide variety of resources is used for instructional purposes, including several specialists, library and laboratory facilities, field trips, audio-visual materials, and the like. Not offered 1957-58.

**404 Workshop in Human Relations 2 hrs.**

Opportunity is provided for teachers, administrators and other personnel to work together in the study and solution of problems in human relations, particularly in the fields of intercultural relations, group process, communication, and home-school-community relations. Resource persons in sociology, psychology, speech, business and education will participate in the workshop. Not offered 1957-58.

**410 Parent Education 2 hrs. Spring**

Emphasizes home problems that have educational implications for the child. Parent-teacher relationships, council programs, and cooperative efforts for improvement of education in home and school are studied.

**411A The Elementary Curriculum 2 or 3 hrs.**

A consideration of content and procedures to adapt experiences of pupils in elementary schools to modern conditions and to child needs and interests. Not offered 1957-58.

**411B The Elementary Curriculum 2 or 3 hrs. Summer, Fall**

A continuation of 411A. Emphasis will be placed on developing and organizing resource materials for actual use in school systems represented by those taking the course.

**420 The Junior High School 2 hrs. Summer, Fall**

A detailed consideration of the basic concepts underlying an effective junior high school program. Study of the development and purposes

of the junior high school; curricular organization and problems; co-curricular activities; instructional materials.

**430 Educational Therapy in Reading 2 or 3 hrs. Summer, Spring**

A study is made of the psychological, sociological and physiological factors affecting children's reading ability, together with laboratory application of such knowledge in the prevention, diagnosis and treatment of reading problems.

**431 Education of Exceptional Children 2 hrs. Summer, Fall**

Deals with the problems and methods involved in the adjustment and training of exceptional children in the schools—the mentally retarded, the gifted, the crippled, the deaf, the blind, the emotionally unstable, and the delinquent.

**432 Education and Control of Mentally Handicapped 3 hrs.**

The course deals with the roles of the courts, institutions, schools, and other agencies in the control, education, and custody of the mentally handicapped. Not offered 1957-58.

**433A Introduction to Lip Reading 2 hrs. Summer, Spring**

Acquaints the student with the various methods of lip reading and the problems encountered in the teaching of this skill. The student is given opportunity to acquire elementary lip reading skill as well as practice in the techniques of teaching.

**433B Speech for the Deaf 2 hrs. Summer**

Teaching methods used in developing speech in congenitally deaf children. Formation of speech elements and combination into words. Use of residual hearing for speech and voice improvement.

**433C Language for the Deaf 2 hrs.**

Development and application of principles of English and presentation to deaf children. Covers the Language Principle Method, Barry Five Slate System, Straight Language for the Deaf, and Wing Symbols. Not offered 1957-58.

**434 Mental Deficiency 3 hrs. Spring**

A course in the psychology and pathology of mental deficiency including causation, diagnosis, classification, prognosis and therapy at all levels.

**435 Anatomy and Pathology of the Aural Mechanism 2 hrs**

A survey of anatomical and physiological subject matter related to the speech field of hearing; functional tests of hearing; and pathological conditions of the ear and labyrinth. Not offered 1957-58.

**436 Mental Hygiene of Childhood and Adolescence**

**2 hrs. Summer, Fall, Spring**

Deals with the problems of emotional adjustment and maladjustment in childhood and adolescence.



**437 Methods and Materials for Mentally Handicapped Children 3 hrs.**

Principles of learning and instructional practices applicable to mentally handicapped children. Special attention is given to problems of the mentally retarded child with elementary curricular materials. Not offered 1957-58.

**438 Audio-Visual Education 2 hrs. Summer, Fall, Spring  
Post-Session Workshop (August 5-16)**

Acquaints teachers and administrators with the principles and practical uses of multi-sensory aids to education, including field trips, machines, and creative materials.

**439 Driver Training and Safety Education 2 hrs. Fall, Spring  
Post-Session Workshop (August 5-16)**

Deals with several aspects of safety education in the home, school and community, with special emphasis on preparing secondary school teachers of driver training and safety education. Materials and methods, psycho-physical testing, sound driving practices, pedestrian protection, "Behind-the-Wheel" training in dual-control cars, and accident prevention procedures are an integral part of the course.

**440 Advanced Audiometry 2 hrs**

This course deals with the physics of sound, with the ear as a sound receiver, and with clinical methods of measuring hearing. The interpretation of test results for the purposes of re-education and the necessary follow-up measures in an educational hearing program are studied. Students will be given actual practice in group and individual audiometric testing. Not offered 1957-58.

**450 Workshop: Education for Moral and Spiritual Values 2 hrs.**

Designed as a pilot project of the AACTE Committee on Teacher Education and Religion. Open to teachers, counselors, administrators and others who are interested in helping children and youth develop desirable behavior patterns based on fundamental moral and ethical principles. Involves a study of procedures and activities designed to develop good value judgments which will carry over in family, school and community relationships. Not offered 1957-58.

**451 Philosophy of Education 2 hrs.**

For graduate students and teachers of experience. Analyzes and interprets the changes in education taking place in this and other countries. Not offered 1957-58.

**465 Adult Education 2 hrs.**

Deals with the organization and financing of formal public school adult education programs, promoting informal adult education activities, leadership training, program planning, and adult education group techniques. Not offered 1957-58.

**480 Introduction to Guidance Services 2 hrs. Summer, Fall, Spring**

Surveys the history, principles, problems, methods, organization and administration of guidance. Special attention is centered on the individual, his needs and adjustments, and on counseling procedures.

**481 Techniques of Guidance 2 hrs. Summer, Spring**

Designed to give competencies in the use of school records, instruments of measurement, case studies, interview, group guidance, placement, follow-up and community resources.

**482 Occupational Information for Counselors and Teachers 2 hrs.  
Summer, Fall**

Stresses knowledge of sources, use, evaluation and techniques of imparting occupational information. Recent trends in the major occupations are also discussed.

**485 Guidance Workshop 2 hrs.**

The workshop is designed for teachers, counselors, supervisors and administrators in selected school systems to study particular guidance problems and procedures in relation to their local guidance program. A wide variety of workshop methods and resources is used. Not offered 1957-58.

**For Graduates Only**

**501 Educational Research 2 hrs. Summer, Fall, Spring**

Acquaints students with the nature and methods of research, with special emphasis upon the practical application of research findings to the solution of educational problems.

**502 The School Curriculum 2 hrs. Summer, Fall, Spring**

A study of educational programs for children and youth, emphasizing principles and problems of curriculum development common to all levels of instruction.

**503 Foundations of American Education 2 hrs. Summer, Fall, Spring**

A study of American education as affected by the great traditions and movements of Western culture. Consideration is given to historical, socio-economic and philosophical factors in the interpretation of modern educational issues and the solution of present-day educational problems.

**504 Educational Psychology 2 hrs. Summer, Fall, Spring**

A study of the forces which motivate behavior and affect the learning process, with particular reference to problems of growth and adjustment, to the development of meaning and insights, and to individual differences.

- 512 Guiding Child Development in the Elementary School** 2 hrs.  
Summer, Spring  
Designed to help nursery school, kindergarten and elementary school teachers gain an understanding of the manner in which skills, information, attitudes and behavior patterns are acquired and modified. Surveys the contributions made by various curricular areas.
- 513 Elementary School Supervision** 2 hrs.  
Emphasis is placed on practical problems of educational leadership and supervision in the elementary school. The roles of supervisors, principals, superintendents and teachers are studied. Not offered 1957-58.
- 514 Elementary School Administration** 2 hrs. Summer, Fall  
Deals with problems confronting the elementary school principal, such as organization of the school program, parent and community relationships, personnel problems, discipline, evaluation and the like.
- 520 Improvement of Teaching in Secondary Schools** 2 hrs.  
Summer, Fall  
For teachers of experience, high-school principals, and superintendents who desire to consider the larger problems of classroom instruction. Open also to graduate students without teaching experience.
- 521 The Secondary School Curriculum** 2 hrs.  
Covers modern practices and recent emphases and trends in subject areas of the secondary school curriculum. Prerequisite: 502 The School Curriculum or equivalent. Not offered 1957-58.
- 522 Teaching in the Core Curriculum** 2 hrs. Summer, Spring  
Designed for teachers and administrators engaged in or preparing for unified programs in junior and senior high schools. Deals with newer practices regarding integration of knowledge from several fields around the needs of secondary youth.
- 523 The Role of the Secondary School in American Society** 2 hrs.  
Considers the place of the high school in the American social scene. Preparation for vocation, citizenship, marriage and family life, and other problems of high school youth are discussed in relationship to major social trends and forces. Not offered 1957-58.
- 524 Secondary School Administration and Supervision** 2 hrs. Summer, Spring  
Designed for superintendents, principals and experienced teachers interested in administrative matters. Makes detailed study of the general problems of organization, supervision and management of the high school.
- 530 Improvement of Reading in Secondary Schools** 2 hrs. Fall  
Designed to aid teachers in developing the reading abilities and skills of their students at the secondary level. Emphasizes aims, materials and procedures.

**531 Clinical Study of Exceptional Children 2 hrs.**

This course is intended to illustrate methods of diagnosing and treating the problems of exceptional children. Not offered 1957-58.

**532 Problems in Education of the Mentally Handicapped 2 hrs.**

Problems in education of mentally handicapped children including educability; philosophy of education of the mentally handicapped; organization of programs; and functions of institutions. Not offered 1957-58.

**533 Hearing Rehabilitation 2 hrs. Fall**

Considers lip reading, hearing aids, auditory training and speech re-education as rehabilitative measures. Laboratory teaching of hard-of-hearing children and adults.

**540 Supervision of Student Teaching 2 hrs. Summer, Spring**

This course deals with the significance of student teaching in the pre-service education of teachers, the role of the supervising teacher, and the problems associated with providing high quality student teaching experiences. Many types of student teaching programs and their components of planning, evaluation, supervisory conferences and follow-up are analyzed.

**550 Evaluation in Education 2 hrs. Spring**

Designed to develop skills, techniques, attitudes and understandings involved in the measurement and evaluation of individual learning and development as well as in the appraisal of the total school program. Emphasis is placed on the construction, use and interpretation of formal and informal evaluative devices and upon the development of a philosophy of evaluation as an integral part of learning.

**551 Growth and Development in Later Adolescence 2 hrs. Summer**

This course is designed to develop an understanding of the behavior patterns, problems and adjustments of college-age youth. Special emphasis is placed on the role of the junior college teacher in guiding the social and emotional as well as the intellectual development of the students.

**560 Principles of Educational Administration 2 hrs. Summer, Fall**

The philosophy and principles underlying school administration including governmental control, school plant, finance, personnel and the internal organization. Presupposes a rudimentary knowledge of administration and some practical field experience.

**561 Social Interpretation 2 hrs. Summer, Spring**

Deals with community education with respect to the educational program. Considers the principles of educational interpretative service and their application in every phase of the system.

**562 Educational Leadership****2 hrs.****Post-Session Workshop (August 5-16)**

Designed for present and prospective administrators, supervisors and college instructors interested in improving educational programs through constructive methods of leadership. Special emphasis is placed on the importance of human relations in curricular change.

**566 Workshop in Educational Administration****2 hrs.**

Open to experienced administrators and others interested in working through administrative problems in school systems. Areas to be studied include: school buildings, finance, public relations, internal administrative problems, personnel policies and educational leadership. Not offered 1957-58.

**570 Directed Teaching****2-6 hrs. Summer, Fall, Spring**

Open to graduate students who have completed the major portion of professional courses required for certification.

**580 Seminar in Guidance****2 hrs.**

A critical review of the research literature relating to guidance and allied fields. Emphasis will be placed upon the practical application of these findings in the respective schools of the participants. Not offered 1957-58.

**581 Interpretation and Use of Tests in Guidance** **2 hrs. Summer, Fall**

Designed to familiarize students with various psychological tests and scales that may be used in school guidance programs. Tests are taken and scored by students, and the results are interpreted and evaluated.

**583 Organization and Administration of Guidance Programs****2 hrs. Summer, Spring**

Administrative and supervisory problems of guidance directors. Need for local and state administration, function of administration and supervision, improvement of group guidance programs in homeroom and classroom.

**585 Elementary School Guidance****2 hrs. Fall**

Designed to give teachers, administrators and guidance workers an understanding of principles and techniques of guidance programs in elementary schools.

**590 The Community College****2 hrs. Summer**

Studies the historical development of the junior and community college movement; the function of the community college in the total educational program; the divergent aims and curricular requirements of pre-professional, academic and pre-vocational courses; the problem of guidance and counseling as an integral part of the program; and methods and materials of instruction at the college level.

**600 Thesis in Education****6 hrs. Summer, Fall, Spring**

Candidates for the Master of Arts degree may elect to write a thesis in a specialized field of education under the supervision of one or more faculty advisers. (See p. 10 for regulation on electing thesis.)

**ENGLISH**

Rogers, Head; Professors Limpus and Miller; Associate Professors Gary, Loutzenhiser, Master, Nobbs, Smith and Van Horn; Assistant Professors Burge, Freund, Holaday, Nelson and Sadler.

**For Graduates and Upperclassmen****401 Teaching of Secondary English****2 hrs. Summer, Spring**

A course in the selection and methods of presentation of literature in high school.

**403 Source Material for Literature in the Elem. Grades****2 hrs. Summer**

Acquaints the student with information about books and materials for children's literature. Covers critical and historical literature, children's magazines, records of the literature of childhood and similar materials. Prerequisite: Literature for Children 203—or equivalent.

**409A Romantic Literature****2 hrs.**

A study of the main currents of English literature near the beginning of the nineteenth century, beginning with Blake and Burns and emphasizing Wordsworth, Coleridge, Scott, and the major criticism of the period. Not offered 1957-58.

**409B Romantic Literature****2 hrs.**

A continuation of 409A, emphasizing Byron, Shelley, Keats, Hazlitt, Lamb, and DeQuincey. Not offered 1957-58.

**410 Literary Criticism****2 hrs. Fall**

Readings in ancient and modern writers on the nature of literature and how it may be examined and judged. Discussions and papers give opportunities for practice in evaluation.

**416 Eighteenth Century Literature****2 hrs. Fall**

The writings of Dryden, Swift, Pope, Addison and Steele are read as expressions of the spirit of the period.

**417 Eighteenth Century Literature****2 hrs. Spring**

The decline of the old and the development of new literary interests are studied in the work of Thomson, Gray, Cowper, Blake and others.

**422 Midwestern Literature****2 hrs. Summer, Spring**

The origins, characteristics and historical development of the imaginative literature of the American Midwest.

**426 Structure of Modern English****2 hrs. Fall**

A study of structural devices employed in the grammar and syntax of Modern English and of recent developments in linguistic theory. A student entering this course should have a knowledge of the history of the English language.

**For Graduates Only****501 Teaching of Freshman English****2 hrs.**

A consideration of the philosophies underlying various courses in freshman English and of methods suited to teaching the communication skills. Not offered 1957-58.

**508 Studies in Drama****2 hrs. Summer**

A consideration of selected plays with a view toward grasping dramatic method and studying problems of the drama.

**510 Poetics****2 hrs. Summer**

A study of poetry in terms of subject, diction, form, imagery and philosophy, supplemented by readings in the theory of poetry.

**513 Studies in the Novel****2 hrs. Spring**

A comparative study of the form and function of the novel.

**514 Studies in Shakespeare****2 hrs. Spring**

A study of the dramatic structure, characterization, imagery, and world outlook of selected plays.

**522 American Literary Themes****2 hrs. Fall**

The "search for a subject" evident in American letters is the center of interest in this course, which concentrates on nineteenth-century authors.

**526 Graduate Writing****2 hrs. Fall**

A course in writing clear and effective prose.

**GEOGRAPHY AND GEOLOGY**

Berry, Head; Professor Stout; Associate Professor Logan; Assistant Professor Brueckheimer.

**For Graduates and Upperclassmen****406 Geography of Michigan****2 hrs. Fall**

A study of Michigan in which the major economic, social and recreational activities are covered. The geographical implications of the location of the activities are explained.

**410 Studies in Geographic Education** **2 hrs**

Gives prospective geography teachers guidance in the selection, organization and presentation of the best materials available in this field. Not open to students who have had Geographic Techniques 303. Not offered 1957-58.

**411 Historical Geography of North America** **2 hrs. Spring**

Migrations and routes of travel of the various European colonizers. Pattern and progress of settlement together with the geographical conditions encountered in developing each part of the continent for human use. Prerequisite: Geography 105A or consent of instructor.

**416 Political Geography** **2 hrs. Summer**

Study of the resources, peoples, and geographic-political problems of the various nations and empires of the world from the point of view of the reciprocal relations involved.

**419 Survey of Latin American Geography** **2 hrs. Summer**

Comprehensive survey of Latin America. Includes the physical landscape, natural resources, and the cultural adjustments in each of the countries. May not be taken by those who have credit in South America, or Mexico and the Caribbean.

**HISTORY**

Russel, Head; Professors Dunbar, Friedmann, Macmillan, Mange and Seibert; Associate Professor Mowen.

*For Graduates and Upperclassmen*

**403 American Foundations** **2 hrs.**

The English Colonies in America, 1607-1763. Mainland and island settlements; development of society and institutions; policy and administration. Not offered 1957-58.

**404A The Era of the American Revolution, 1763-1787** **2 hrs.  
Summer, Fall**

The causes, character and consequences of the American Revolution. The principal aims are to acquaint students with all kinds of historical materials and to introduce them to methods of advanced historical study.

**404B United States History, 1787-1851** **2 hrs. Spring**

The making of the Constitution and establishment of the early republic.

**405A United States History, 1815-1848** **2 hrs.**

An intensive study of selected topics. Principal objects are to acquaint students with the various classes of historical materials and to introduce them to methods of advanced historical study. Not offered 1957-58.



**405B United States History, 1848-1877** 2 hrs.

This course deals principally with the great sectional struggle over slavery. It is conducted in the same manner as 405A. Not offered 1957-58.

**406A United States History, 1901-1933** 2 hrs. Fall

An intensive study of a short period. Covers the progressive movement, World War I, and the causes of the Great Depression.

**406B United States History, 1933 to the Present** 2 hrs. Spring

A continuation of 406A. The big topics are the Great Depression, the New Deal, World War II, and our foreign relations since the war.

**408 Europe, 1900-1925** 3 hrs. Fall

A study of the evolutionary promise of the New Enlightenment and the forces that led to its end in World War I; the frustrated opportunities of the peace ending at Locarno. Emphasis on evaluating significant trends of liberalism; the relationship of domestic and foreign policies.

**409 Europe, 1925 to Present** 3 hrs. Summer, Spring

Covers the crucial problems of Europe and the solutions offered. Special study of the World Depression; the revolutionary alternatives posed by Fascism and Communism; and the tensions and ideological conflicts culminating in World War II.

**410A Continental Europe, 1815-1870** 3 hrs. Fall

The principal topics are the reaction following the Napoleonic Wars, the revolutions in behalf of liberty and democracy, the emergence of new states, and the unification of Germany and Italy.

**410B Continental Europe, 1870-1914** 3 hrs. Spring

The principal topics are the liberal and socialist movements of the time and the growth of nationalism and its consequences.

**415 The Old Regime** 2 hrs. Fall

A study of the development of absolute monarchy; of the institutions, life and thought of the eighteenth century, with special emphasis upon France; the causes of the French Revolution, and belated efforts at reform. Prerequisite: An introductory course in European history.

**416 The French Revolution and Napoleonic Era, 1789-1815** 2 hrs. Spring

The overthrow of the French Monarchy and establishment of the First French Republic, the rise and fall of the Napoleonic Empire, and the spread of revolutionary principles throughout Europe. Prerequisite: An introductory course in European history.

**418 The Old South** 2 hrs.

A study of economic, social and cultural conditions in the ante-bellum South with emphasis on the plantation system and Negro

slavery and the social and political philosophy of Southern leaders. Not offered 1957-58.

**425A Intellectual History of Western Man, I (Beginning to 1550) 2 hrs. Fall**

Leading ideas and movements in Western Civilization; their foundations in classical and Judaeo-Christian traditions. Medieval thought and Arab influences. Renaissance and Humanism. The breakup of the medieval system through the Protestant Reformation.

**425B Intellectual History of Western Man, II (1550-1950) 2 hrs. Spring**

Four hundred years of the "modern mind": the dominance of the scientific perspective and the conflict with Christian ideas and ideals. Rationalism, Enlightenment and the secularization of life. Romanticism, liberalism, and the challenge of socialism.

**426 Twentieth Century Britain 2 hrs.**

A study of British political, social and economic developments since 1900 and of the changing character of the Empire and Commonwealth. Not offered 1957-58.

**430 The Literature of History 2 hrs.**

The two-fold purpose in reading selected writings of great historians is to develop: (1) Standards of evaluation concerning sources, approaches, problems of controversy and extraneous influences; (2) An appreciation for the pleasures of reading history through its style, story content, personal drama and conflict. Not offered 1957-58.

**For Graduates Only**

**511 Studies in the Near East 2 hrs. Spring**

Studies pertaining to the major aspects of the history of the Near East; involving lectures, supplementary reading and the critical use of historical materials.

**513 Studies in Michigan History 2 hrs. Summer, Fall**

Studies in the history of Michigan since its admission as a state. Attention is given to the critical use of historical materials and the preparation of bibliographies.

**515 Eighteenth Century Enlightenment 2 hrs. Spring**

Lectures and reading on the character of the eighteenth century enlightenment, with special attention to France; and the critical use of historical materials in the study of significant *philosophes*.

**519 Studies in Russian History 2 hrs. Fall**

Lectures and reading on those phases of Russian history necessary for an understanding of the present. The critical use of historical

materials in the preparation of papers on topics of current significance along two general lines: (a) problems connected with Russia's borderlands; (b) the evolution of Soviet institutions.

**522 The United States and Asia since 1945 2 hrs.**

Considers the mid-twentieth century reorientation of United States policy and the shift in balance of power and force insofar as they relate to the Orient. Not offered 1957-58.

**524 Studies in the History and Culture of the Old Northwest 2 hrs.  
Summer**

Reading, discussion and research on various aspects of the development of government, education, social institutions and economic life in the Old Northwest.

**HOME ECONOMICS**

Herald, Head; Associate Professors Acree, Taylor and Volle; Assistant Professors Rowe and Stamm.

For Graduates and Upperclassmen

**400 Family Living in the Schools 2 hrs.**

Problems of organizing materials in family living for the purpose of teaching classes and working with groups in the school program. Not offered 1957-58.

**416 Advanced Nutrition 3 hrs.**

Study of recent developments in nutrition through readings and experiences. Prerequisite: Home Economics 211 and 311. Not offered 1957-58.

**419 Experimental Food 2 hrs. Fall**

Application of principles affecting food preparation. Development of experimental techniques. Individual problems in food preparation. Prerequisites: Chemistry 105A and B and Foods 111.

**421 The Homemaking Center and Equipment 2 hrs.**

Consideration of fundamentals in planning laboratory and living area in terms of needs with special emphasis on built-ins, furnishings and equipment. Selected problems to be chosen by the individual. Not offered 1957-58.

**422 Housing 2 hrs.**

A study of economic and social aspects of housing. Single, duplex, and multiple housing problems are considered. Prerequisite: 221 or consent of instructor.

**423 Institutional Management** **3 hrs. Spring**

Study in institutional administration, job analysis, labor policies, personnel problems and cost control in different types of food-service institutions. Prerequisite: Home Economics 311, 312.

**425 Food Technology** **2 hrs.**

Food preparation with special emphasis on individual problems related to school food teaching units. Study of commercial food preparations. Not offered 1957-58.

**439 Consumer Buying** **2 hrs. Summer**

Study of marketing problems and consumer credit. Student work on individual problems which concern the technique of buying a specific type of consumer goods. Prerequisite: Consent of instructor.

*For Graduates Only*

**500 Supervision of Home Economics** **2 hrs. Summer**

New developments in the teaching of home economics and the supervision of student teaching will be studied. Problems of the students will receive major consideration.

**502 Coordinated Program in Home Economics** **6 hrs.**

A workshop type program for experienced teachers. Three areas of homemaking will be emphasized: clothing construction problems of teachers, teaching of foods on a meal basis and problems in teaching family living. Special consultants will be secured to assist the staff. Not offered 1957-58.

**504 Advanced Clothing Techniques** **2 hrs. Summer**

This course is planned to meet the needs of the advanced student in clothing construction techniques. Prerequisites: Clothing 205, 305 and the consent of the instructor.

**505 Advanced Tailoring Techniques** **2 hrs. Fall**

Specialized tailoring techniques in coats and suits. Problems in the use and performance of new textiles in clothing included. Prerequisites: 304 and 504.

**506 Curriculum Planning in Home Economics** **2 hrs.**

Consideration of changes in family living and society in relationship to the developmental needs of students as a basis for curriculum building in junior and senior high school. Programs in homemaking education. Prerequisite: Consent of instructor. Not offered 1957-58.

**507 Evaluation in Home Economics** **2 hrs. Fall**

A study of the techniques of evaluation applicable in home economics. Review of published devices in this field. Construction of objective devices and their use in the classroom. Prerequisite: Consent of instructor.

- 508 Adult Education in Homemaking** 2 hrs. Spring

A study of the developmental needs of adults and changes in society affecting families as a basis for developing adult programs in home-making education. Prerequisite: Consent of instructor.

### **INDUSTRIAL ARTS**

Feirer, Head; Associate Professors Brink, Farnan, Huff and Nichols; Assistant Professors Bendix, Hutchings and Klammer.

*For Graduates and Upperclassmen*

- 407 Furniture Construction** 3 hrs. Summer, Spring

A course covering the design and construction of fine furniture. Each student will be required to design and carry to completion a finished piece of furniture.

- 415 Arts and Crafts Techniques** 2 to 4 hrs.

Advanced laboratory experiences in the fields of internal plastic carving, leather work, model work, archery, photography, and related crafts in conjunction with a study of current technical literature in these areas. Not offered 1957-58.

- 416 Advanced Problems in Graphic Arts** 2-4 hrs.

Opportunity is provided for the individual student to undertake advanced study of the technical problems in the field of graphic arts. Advanced instruction in imposition, presswork and linotype composition will be available. Not offered 1957-58.

- 450 The General Shop Program** 2 hrs.

Covers the place of the general shop in general education and the historical development of the general shop program. Problems of organization, administration, methods, articulation, equipment and supplies will be investigated. Not offered 1957-58.

- 463 Arts and Crafts for Teachers** 2 hrs. Summer, Spring

This course will cover craft techniques in the areas of art metal, jewelry, leather, plastics, wood crafts and other related experiences. Teaching procedures, methods and materials will be emphasized.

- 464 Industrial Arts for the Elementary School** 2 hrs. Summer, Fall

Deals with the problems of organizing and teaching Industrial Arts for the elementary grades. Course materials, techniques and materials in the industrial and craft areas will be stressed.

*For Graduates Only*

- 500 Research in Machine Shop Practices** 2 hrs. Summer

A course designed for teachers who wish to carry out advanced techniques in the area of machine shop.

**505 Problems in Woodworking****2 hrs. Summer**

Advanced laboratory experiences in some of the more common areas of woodworking such as pattern-making, carpentry, upholstery, caning and finishing. Content selection, project building and new techniques will be covered.

**508 Problems in Metalworking****2 hrs.**

Practical laboratory experiences in forging, foundry, heat treating, machine shop, and arc and acetylene welding. Course will emphasize methods of selecting and developing course materials for junior and senior high school students. Course content will be adapted to meet the needs of individual students. Not offered 1957-58.

**520 Advanced Drafting Practices****2 hrs. Summer**

Advanced laboratory experiences in the fields of mechanical, architectural and machine drawing in conjunction with a study of current technical literature in these areas. Written reports will be required. Advanced instruction in engineering drawing and descriptive geometry will also be available. Course content will be adapted to individual needs.

**551 Trends in Industrial Arts****2 hrs. Summer**

A study of current literature in the field. Research studies will be reviewed. Commercial and industrial publications will be studied to determine their place in the school shop program.

**553 Project Planning and Designing****2 hrs. Summer**

A study of the principles of design and their application to shop projects. Special attention will be given to planning and designing new projects that will enrich the school shop program.

**585 Shop Planning****2 hrs.**

Planning of the shop and selecting the equipment and supplies for an industrial arts laboratory. A study of the basic principles of planning and equipment selection to harmonize with modern industrial arts philosophy. Not offered 1957-58.

**INDUSTRIAL TECHNOLOGY**

Luff, Acting Head; Associate Professors Beukema, Ellinger, Nantz, Scott and Wilcox.

**For Graduates and Upperclassmen****422 Automotive Transportation Workshop****2 hrs. Summer**

A study of current maintenance procedures and methods of handling specialized equipment in diagnosing and servicing automobiles. Instructional material will be developed for use in teaching automotive courses.

**424 Automotive Performance Problems** 2 hrs.

A brief study of the operating curves, advance testing procedures, automotive ratings and requirements as they apply to automotive performance and service life. Not offered 1957-1958.

**449 Aviation for Classroom Teachers** 2 hrs.

For elementary and secondary school teachers desiring an understanding of various phases of aviation and their relationships to social, political, economic and educational problems. Analysis of various educational activities that are appropriate to different grade levels. Not offered 1957-58.

**452 Teaching of Vocational-Industrial Education** 3 hrs. Fall

Deals with specific techniques used in teaching trade and industrial subjects. Emphasizes teaching problems associated with this type of education.

**459 Practical Labor-Management Relations** 3 hrs.

A course dealing with existing relationships between government agencies, labor organizations and management. Particular emphasis will be placed on collective bargaining procedures. Not offered 1957-58.

**460 Cooperative Education in the Secondary School** 2 hrs.

The nature and purposes of cooperative education in the secondary schools. Problems and procedures involved in the organization and operation of cooperative work-study programs are discussed. Not offered 1957-58.

**472 Course Planning and Construction** 2 hrs. Spring

Principles and techniques of selecting and analyzing suitable teaching activities and arranging such material into a functional instructional order. Instructional units prepared will be based on an analysis of a trade occupation or activity.

**474 Measurement in Industrial Education** 2 hrs.

A study of the selection, preparation, administration and interpretation of manipulative and educational test and diagnostic devices including the criterion problem and techniques of validation, test reliability theory, and the appraisal of educational programs. Not offered 1957-1958.

**476 History and Philosophy of Industrial Education** 2 hrs.

Industrial education in America, with special attention to European influences, experiments, industrial developments and theories. Emphasizes developments leading to modern practices both in industrial arts and in vocational-industrial education. Not offered 1957-58.

**For Graduates Only**

**573 Instructional Aids**

**2 hrs.**

Methods of selecting, constructing and using effectively appropriate aids in various industrial arts and vocational teaching situations. Not offered 1957-58.

**575 Industrial Surveys and Curriculum Development**

**2 hrs.**

Acquaints the student with significant research relating to surveys and curriculum development. Curriculum development will be analyzed on the basis of judgmental, experimental, analytical, and consensual procedures. Not offered 1957-1958.

**LANGUAGE**

Steckelberg, Head; Associate Professors Kraft, Noble, and Rothfuss; Assistant Professors Jones and Tamin.

**For Graduates and Upperclassmen**

**402 Mythology**

**3 hrs.**

Investigates the origins, elements and interpretation of the principal myths and legends of Greece and Rome; also their preservation not only in literature but also in painting, music, and sculpture. Not offered 1957-58.

**405 Contemporary Spanish Theater**

**2 hrs. Spring**

The Spanish theater and the dramatists of the 20th century are studied. Lectures and reading assignments in English include representative works of the important writers for the theater. No prerequisite in Spanish.

**407 The Central European Area**

**2 hrs. Fall**

Deals with the historical, geographical, social and religious problems necessary for an understanding of the Central European situation. Countries included will be Germany, Austria, Switzerland, and Czechoslovakia.

**408A Contemporary French Literature**

**2 hrs.**

The aims of this course are to study a few outstanding French novelists and essayists of our time and to examine the works of the masters of the preceding generation whose ideas have been influential to the present day. Not offered 1957-58.

**408B Contemporary French Literature**

**2 hrs.**

A continuation of French 408A. The aims of this course are to study the history and traditional purposes of the Comedie-Francaise and to make the student aware of the renovation of stagecraft in France under the impulse of great producers. Not offered 1957-58.



**417 Evolution of German Thought****2 hrs. Summer**

A study of the development of Germany and the German national character. Includes a study of selected authors on history, philosophy and pedagogy as well as German literature in translation. No foreign language prerequisite.

**427 Germany Through the Centuries****2 hrs.**

A study of German cultural history designed to give the student an understanding of the German problem as it developed through the centuries. Geographical, literary, philosophical, educational and art aspects will be investigated. No foreign language prerequisite. Not offered 1957-58.

**437 Studies in Contemporary France****2 hrs. Summer**

Investigates extensively phases of French economic, political, social and educational life mentioned in French 207A and B. No foreign language prerequisite.

**442 Instruction in Modern Foreign Languages****2 hrs.**

Designed for teachers of French, German or Spanish in the high school and grades. Covers the psychological principles underlying language learning, the evaluation of current methodology, and cultural materials in the three civilizations, suitable for present-day school use. Not offered 1957-58.

**LIBRARIANSHIP**

LeFevre, Head; Associate Professors Hunt and O'Hara; Assistant Professors Lowrie and Van Zee.

**For Graduates and Upperclassmen****\*402 Reading Interests of Young Adults****2 hrs. Summer, Spring**

Study of the fields of literature, both adult and juvenile, of interest to youth. Wide reading of books followed by critical and descriptive analysis. Emphasis on awakening interest in reading.

**403 Selection of Books and Related Materials****2 hrs. Summer, Fall**

Principles of selection and evaluation of books and non-book materials. Appraisal of printed aids, book reviewing media, and other sources of information used in building the library collection.

**404 Adult Reading Interests****2 hrs. Spring**

Evaluation of the findings of reading interest studies and their implications in library service. Survey of the field of popular reading in various subject areas. Development of an understanding of the reading habits, abilities and needs of adults with emphasis on techniques of reading guidance for adults such as book talks.

\*Starred courses open to students in other departments.

**\*406 Storytelling****2 hrs. Fall**

Underlying principles of the art of storytelling; techniques, content and sources of materials. Planning the story hour for developing appreciation of literature and stimulating reading interest.

**\*407 Library Materials for Children****2 hrs. Summer, Spring**

Problems in the selection and evaluation of books, periodicals, films, recordings and other materials for children with special emphasis on the content areas in the elementary school curriculum. Methods of stimulating interest in reading with attention to the retarded as well as to the gifted child. Prerequisite: English 203 Literature for Children.

**411 Reference Service****2 hrs. Summer, Fall, Spring**

Covers basic reference and bibliographic sources in the subject fields. Critical examination of various publications especially as reference sources. Attention given to organization and methods of reference.

**460 Library Administration and Organization****2 hrs. Fall**

Organizational factors requisite for effective service to school, public, county and regional libraries. Consideration given to governmental and community relations, to personnel, finance, buildings and equipment. Individual projects, lectures, and class discussion supplemented by observation trips. Prerequisite 403, 470 and 411 or equivalents.

**461 School Library Service****2 hrs. Summer, Spring**

The function of the library as a department in elementary and secondary schools. Includes study of special problems in budget planning, in provision of staff and in planning for space and equipment. Standards for the evaluation of school library services are studied. Open to students in school administration programs as well as to librarianship students.

**470 Introduction to Classification and Cataloging** **4 hrs. Summer, Fall**

Principles of classifying and cataloging the book collection, including study and practice in making the dictionary catalog and in classifying materials according to the Dewey Decimal Classification Scheme.

**480 Field Assignment and Seminar****2 hrs. Summer, Fall, Spring**

An assignment in selected cooperating libraries for the purpose of giving the student experience in the organizational and administrative activities in specific types of libraries as basis for understanding their function and the principles underlying policy. The assignment may precede the opening of college or may be carried on during the term. Laboratory period for discussion of problems is held throughout the term.

\*Starred courses open to students in other departments.

**For Graduates Only**

**\*505 Curriculum Enrichment Materials 2 hrs. Summer, Fall, Spring**

Study of the sources for selection of teaching materials with emphasis on the content areas in the secondary school curriculum. Includes evaluation of books, pamphlets, periodicals, maps and other audio-visual materials. Methods of instruction in the use of such materials are also studied. Students are expected to complete a term project. Open to teachers as well as librarianship students.

**\*509 History of Books and Printing 2 hrs. Spring**

Studies of the physical book and its relationship to social and cultural developments. Includes history of the alphabets, early writing materials, manuscripts, invention and spread of printing and evolution of book production.

**\*510 Adult Education Methods in Libraries. 2 hrs. Summer, Fall**

Function of the library in the continuing education of adults; relationship to other adult education agencies. Introductory leadership training and development of techniques in group work, book discussions and film forums.

**511A Subject Bibliography: The Humanities and Social Sciences 2 hrs. Summer, Fall**

A study and evaluation of the bibliographical sources in the applied and the pure sciences. Each student will be expected to compile a bibliography on a topic of his choice. Prerequisite: an introductory course in Reference.

**511B Subject Bibliography: The Sciences 2 hrs. Spring**

A study and evaluation of the bibliographical sources in the applied and the pure sciences. Each student will be expected to compile a bibliography on a topic of his choice. Prerequisite: an introductory course in Reference.

**560 Public Library Service 2 hrs. Fall**

Origin and development, purpose and functions of the tax supported public library in a democracy. Relation to other educational units in the community; distinctive problems and practices in public library organization and administration. Prerequisite: 460 or the equivalent.

**561 Seminar in Administrative Problems 2 hrs. Spring**

Analysis of administrative problems in school and public library systems: larger units of service, new buildings, centralization and supervision. Students may develop a term project relating to their own institutions. Prerequisite: 460, 461 or 560.

\*Starred courses open to students in other departments.

**562 Foundations of Librarianship****2 hrs. Summer, Fall**

The course aims to give the student professional background through study of the historical development of the library, European and American; the function of the modern library and its contribution to society; current trends in librarianship and current library literature.

**563 Children's Library Services****2 hrs. Fall**

Organization and administration of public library service to children; emphasis on coordination with elementary school library service.

**564 Library Service to Youth****2 hrs. Spring**

The function and administration of youth service in public libraries; study of methods in use in various library systems and the coordination with secondary school libraries.

**570 Advanced Classification and Cataloging****2 hrs. Spring**

A continuation of Introduction to Classification and Cataloging 470. Attention is given to comparison of classification systems; to cataloging of special types of materials and to methods of organizing centralized cataloging units in school systems.

**MATHEMATICS**

Butler, Head; Professors Beeler and Hannon; Associate Professors Peterson and Meagher; Assistant Professors McCully, Powell and Seber.

**For Graduates and Upperclassmen****401 Teaching of Secondary Mathematics** **2 or 3 hrs. Summer, Fall**

Consideration is given to curriculum problems and trends in secondary school mathematics, but the main emphasis will be upon specific problems of teaching mathematics effectively to secondary school students. Prerequisite: Math. 104B or equivalent.

**411 History of Mathematics****2 hrs. Summer, Spring**

Treats the history of geometry and trigonometry from earliest times to the present. Prerequisite: Math. 104B, or equivalent.

**412 History of Mathematics****2 hrs.**

Treats the history of arithmetic and algebra from the earliest times to the present. Prerequisite: Math. 104B, or equivalent. Not offered 1957-58.

**423 Introduction to Higher Geometries** **2 or 3 hrs. Summer, Spring**

The nature of proof. Introduction to non-Euclidean, inversive, finite, and projective geometries. Constructions. Especially recommended for those planning to teach high school geometry. Prerequisite: Math. 104B, or equivalent.

**473 Introduction to Statistical Analysis** 2 or 3 hrs. Summer

The study of statistics as the science of experimentation: averages, dispersions, sampling, correlation, and statistical tests valid for small or large samples. Prerequisite: Analytic Geometry.

**For Graduates Only**

**501E Mathematics for Elementary School Teachers** 2 hrs. Summer

Emphasizes the understanding of concepts and foundations of mathematics commonly taught in the elementary school and of associated problems of learning and teaching.

**507E Field Work in Mathematics** 2 hrs. Post-Session Workshop  
(August 5-16)

A laboratory in the study and use of relatively simple instruments in mathematics and of mathematical principles involved in their design and use. Field work for collection of data, analysis and solution of problems based on such data, and the adaptation of projects for practical use in enriching the work in mathematics classes will be stressed. The course will be of interest and value to mathematics teachers in the junior and senior high school and to all who are concerned with camping or scouting activities. Prerequisite: Trigonometry or consent of instructor.

**511 Concepts of Mathematics I** 2 hrs. Summer, Fall

Some consideration is given to the number system of mathematics, the theory of numbers, the mathematical analysis of infinity and the algebra of sets. This course is especially recommended for secondary school teachers. Prerequisite: approval of instructor.

**512 Concepts of Mathematics II** 2 hrs. Summer, Spring

The following topics are considered: the modern concept of geometry and its relation to group theory and invariance; brief survey of some geometries, especially those essential for physics, programming, etc.; some geometric constructions, including the construction of algebraic numbers; some maximum and minimum problems from a geometric viewpoint. This course is especially recommended for secondary school teachers. Prerequisite: approval of instructor.

**MUSIC**

Carter, Head; Professors Matthews, Meretta and Stulberg; Associate Professors Beloof, Green, Birkby and Snyder; Assistant Professors Adams, Beloof, Berger, Brown, Faustman, Kyser and Ramstad.

**For Graduates and Upperclassmen**

**400 Elementary School Music** 2 hrs. Summer

Emphasizes the place of music in the curriculum and the use of music in the day to day activities of the classroom. The fundamental

musical skills are developed in order to assist the teacher to achieve these objectives.

**401 Philosophy and History of Music Education 2 hrs. Spring**

Designed to acquaint the student with the development of music education in the United States and how this development is the reflection of a growing philosophy of music education.

**403 Psychology of Music Education 2 hrs. Fall**

Develops understandings of differences in musical ability, various music tests, attitudes toward music and behavior in musical organizations.

**405A Counterpoint 2 hrs. Fall**

Modal and harmonic counterpoint as exemplified by the composers of the fifteenth, sixteenth, seventeenth, and early eighteenth centuries. Modern counterpoint. Practical application through the writing of strict counterpoint in the five species, double counterpoint, obligatos, descants, canons and fugues.

**405B Counterpoint 2 hrs. Spring**

A continuation of 405A.

**407 Music of Wagner and Beethoven 2 hrs. Fall**

Designed to acquaint one with the music of these composers, its style, its place in the field of music literature and its relationship to the period in which they lived.

**451 Advanced Instrumental Conducting 1 hr. Fall, Spring**

Supervised experience in conducting instrumental groups. The student may be called upon to prepare an ensemble for public performance. Prerequisite: Instrumental Conducting 311A, Choral Conducting 311B.

**452 Advanced Choral Conducting 1 hr. Fall, Spring**

Supervised experience in conducting vocal groups. The student may be called upon to prepare an ensemble for public performance. Prerequisite: Instrumental Conducting 311A, Choral Conducting 311B. Not offered 1957-58.

**455A Orchestration 2 hrs. Fall**

A study of the characteristics of the various instruments, application in arranging for various instrumental combinations including accompaniments for solos, vocal and instrumental. Covers arranging for both band and orchestra. Prerequisite: Advanced Harmony 206A, B.

**455B Orchestration 2 hrs. Spring**

A continuation of 455A.

**456A Advanced Composition****2 hrs. Fall**

Original work in composition dealing with the larger forms in both the vocal and instrumental fields. Prerequisite: Composition 306A, B.

**456B Advanced Composition****2 hrs. Spring**

A continuation of 456A.

**For Graduates Only****507 Opera and Oratorio****2 hrs. Spring**

Designed to give the graduate student the historical and appreciative background into two of the great vocal forms of music from the 17th century to the present. Style and analysis are considered.

**509 Band Techniques and Organization****2 hrs. Summer**

Organization of the school instructional program. Rehearsal techniques. Survey of band literature. Analysis and discussion of the problems of the instrumental teacher. Offered odd-numbered summers.

**555 Band Arranging****2 hrs.**

Instruction in scoring for small wind instrument ensembles, and the band. Opportunity will be provided to hear the results of each student's work. Offered even-numbered summers. Not offered 1957-58.

**560 Seminar in Music Education****2 hrs. Summer**

Each participant will be expected to develop a project which is of interest to him, but each project will be subject to group discussion, review and analysis. The lectures and reading will deal with the whole field of Music Education.

**615-688 Private Instruction in Applied Music****1-2 hrs.****Summer, Fall, Spring**

Qualified students may take graduate study in Applied Music for a total of four semester hours in the major performance area (two semester hours per semester) and for a total of two semester hours in a minor performance area (one semester hour per semester). Requires sixty minutes per week of instruction and the necessary practice.

**OCCUPATIONAL THERAPY**

Spear, Head; Assistant Professors Hamlin and Kiss.

**For Graduates and Upperclassmen****410A Theory of Occupational Therapy****2 hrs. Fall, Spring**

Specific instruction in the organization and administration of an occupational therapy department. Supplemented by field trips to hospitals, social agencies, and allied industries.

**410B Medical Lectures****3 hrs. Fall**

A series of lectures on medical and orthopedic conditions. These will be integrated with occupational therapy treatment.

**410C Neurology Lectures****2 hrs. Summer, Spring**

A study of the anatomy and physiology of the central sympathetic and peripheral nervous systems. Treatment of diseases of the brain and spinal cord and orthopedics. Prerequisite: Kinesiology 216A.

**425A Ceramics****2 hrs. Fall**

The design of functional form in clay. Covers ceramic processes, glazing and kiln management. Prerequisite: Design 215 and Art Structure 106.

**425B Jewelry****2 hrs. Spring**

Covers the design and technical essentials of jewelry. Includes study of ceramics, copper, sterling silver, stone-setting and enameling.

**428 Advanced Weaving****2 hrs. Spring**

Studies in the more complex forms of fabric structure and design.

**For Graduates Only****503 Clinical Training and Scheduling****2 hrs.**

Objectives of clinical training and evaluation of existing hospital training centers. Mechanics of the student training schedule and the student rating program. Not offered 1957-58.

**511 Advanced Clinical Training****6 hrs.****Summer, Fall, Spring**

A specialized course of study in cerebral palsy, poliomyelitis or physical disabilities. This work is taken on an advanced level at specified training centers. Prerequisite: Clinical Training 411.

**515 Advanced Design****2 hrs.**

A studio course involving manual problems. The planning and construction of forms which lend themselves to utility and fabrication. Individual projects in terms of student's interests and abilities. Not offered 1957-58.

**PAPER TECHNOLOGY**

Nadelman, Head; Professor Diehm.

**For Graduates and Upperclassmen****436A Research Problems in Pulp and Paper****2 hrs. Fall**

Laboratory development work pertaining to pulp and paper technology preceded by a survey of available literature.



**436B Research Problems in Pulp and Paper** 2 hrs. Spring

A continuation of course 436A.

**437 Principles and Practice of Coated Paper Manufacture** 2 hrs. Spring

Lectures on aspects of formulating, preparing and applying pigmented coatings to paper. Lectures on rheology, on control methods, finishing methods and on testing of finished product, with special reference to printability. Laboratory experience in formulation, in laboratory methods of application, in testing and in calendering. Visitations to nearby mills engaged in coating paper and paperboard.

**438 Microbiology of Pulp and Paper** 2 hrs.

A lecture course on morphological characteristics and biochemical activities of micro-organisms in the pulp and paper mill. Methods of controlling micro-organisms in the paper industry are evaluated. Prerequisite: A course in bacteriology or equivalent. Not offered 1957-58.

**446 Paper Mill Management** 2 hrs.

A course of study for paper technician students on the duties of management in paper mill organization, finance, marketing, sales, research, personnel, labor relations, engineering, purchasing, traffic and management attitudes. Not offered 1957-58.

#### PHYSICAL EDUCATION FOR MEN

Gary, Head; Professor Maher; Associate Professors Dales, Gabel, Gill, Hoy, Slaughter and Wietz.

For Graduates and Upperclassmen

**401 Curriculum Planning in Physical Education** 2 hrs. Summer, Spring

A study and evaluation of present day trends in secondary physical education for boys. A discussion of principles and procedures for curriculum construction and criteria for selection of activities and judging of outcomes.

**402 Problems in Interscholastic and Intercollegiate Athletics** 2 hrs. Summer

Considers the relationship of athletics to education. Problems in the organization of an athletic program including eligibility, finance, liability, transportation, safety, facilities, and equipment are discussed.

**403 Sports Officiating** 2 hrs. Summer

Considers rules and officiating techniques with emphasis on football, basketball, baseball and track. Prerequisites: Fundamentals and Techniques 208, 209, 210 and 211 or equivalent.

**For Graduates Only**

**501 Current Studies in the Administration of Physical Education**  
2 hrs. Summer, Spring

A study of representative programs of physical education and a discussion of standards for evaluating such programs.

**502 Community Recreation** 2 hrs. Summer

Considers problems in community recreation. The essential elements pertaining to leadership, areas, facilities, programs, activities and methods of organization and administration are studied.

**503 Camp Administration** 2 hrs. Summer

Deals with the organization and administration of camps and their program requirements and standards. Consideration is given to philosophy and objectives, personal skills in camp activities and methods of teaching them. Visits to camps are made and out-of-door activities are experienced.

**504a, b, c, d Advanced Techniques in the Coaching of Athletics**  
1 hr. Summer

Considers problems in the coaching of fundamentals, the organization of practice periods and offensive and defensive strategy. Prerequisite: Either coaching experience or completion of an undergraduate course in the sport concerned. a—Football; b—Basketball; c—Baseball; d—Track. Two of these may be taken during the summer session. Consult the summer schedule.

**505 Advanced Techniques in the Coaching of Minor Sports**  
2 hrs. Summer

Considers problems and coaching techniques in minor sports such as wrestling, tennis, archery, badminton and golf. Rules and regulations governing meets and play are discussed. Actual participation in the activities is required. Either coaching experience or completion of an undergraduate major or minor in the field of Physical Education is a prerequisite.

**506 Methods and Materials in Recreation** 2 hrs. Fall

A study of the best methods and materials for the teaching and organization of recreation activities. All activities used in recreation will be presented. Opportunities for organization and actual participation and leadership will be given. This course is open to all graduate students.

**PHYSICAL EDUCATION FOR WOMEN**

Worner, Head; Associate Professor Roell; Assistant Professors Brown, Crane and Hussey.

**For Graduates and Upperclassmen**

**444 Methods in Physical Education**

**3 hrs. Spring**

Fundamental principles underlying the selection of subject matter and the technique of teaching gymnastics, games and rhythmic work for elementary and high-school pupils.

**445 Administration and Organization of Physical Education**

**2 hrs. Fall**

Presents the problems that arise in the everyday experience of the instructor. Considers administration of activities, physical examinations, excuses, special cases, records, schedules, and relations with other services in the school. Prerequisite: Methods in Physical Education 444.

**473 Individual Gymnastics**

**3 hrs. Spring**

The study of preventive as well as prescribed exercises for remedial defects in cases of curvature and physical abnormalities. Practice with patients will be given. Prerequisite: Anatomy 211A, Physiology 211B, Applied Anatomy 273.

**For Graduates Only**

**520 Curriculum Building in Physical Education**

**2 hrs. Spring**

Deals with a practical progressive physical education program for the elementary schools and for secondary school girls. A review of characteristics of children is used as a basis for an analysis of the development of the fundamental and basic skills at the various age levels.

**531 Rhythms in Elementary Education**

**2 hrs. Fall**

A study of the rhythmic movement needs of the elementary school child—(a) suggested methods of teaching through which children are stimulated to create their own ways of doing—(b) folk and social dancing as outgrowths of movement fundamentals—(c) teaching examples, sample lesson plans, and up-to-date reference sources. The course will consist of lecture and activity classes.

**532 Physical Education for the Elementary Classroom Teacher**

**2 hrs. Summer**

A study of the developmental needs of the child in terms of physical activity; the role of physical education in childhood education; the responsibility of the classroom teacher in this area; demonstrations and practice in teaching activities.

**550 Problems and Trends in Physical Education**

**2 hrs. Summer, Spring**

Deals with modern trends and with instructional and supervisory problems involved in conducting an effective program of physical education. Critical appraisal of present practices.

## PHYSICS

Rood, Head; Professor Marburger; Associate Professors Bradley and Kruglak.

For Graduates and Upperclassmen

### 403 Applied Spectroscopy 2 hrs. Spring

A combined class and laboratory course on methods of spectrographic analysis. The topics studied will include the history of spectroscopy, the origin of line spectra, spectrographic instruments, and modern techniques of qualitative and quantitative analysis. Prerequisite: one year of General College Physics.

### 440 Atomic Physics 3 hrs. Fall

A study is made of the electron, the photoelectric effect, thermionic emission, the physics of X-rays, quantum theory, devices for accelerating nuclear particles, isotopes, spectra, and atomic structure. Prerequisites: Electricity and Light 103B, Calculus 205A, B.

### 441 Nuclear Physics 3 hrs. Spring

A continuation of Atomic Physics 440. Covers natural and artificial radioactive transformations, the experimental methods of nuclear physics, properties of neutrons, binding energy, nuclear reactions, nuclear structure, fission, and cosmic rays. Prerequisite: Atomic Physics 440.

### 443 Theoretical Physics 3 hrs. Fall

Presents the fundamental structure of physics in precise mathematical terms. The topics will include mechanics from a vector point of view, flow of fluids, electric and magnetic fields. Prerequisites: Electricity and Light 103B, Calculus 205B.

### 462 Electrical Measurements 3 hrs. Fall

Deals with the theory and use of instruments to measure electrical and magnetic quantities. Both AC and DC bridge methods are included. Prerequisites: Electricity and Light 103B and Calculus 205A, B.

### 465 Advanced Electronics 3 hrs. Fall

Applications of electronics in different types of radio frequency communicating systems, in control devices, and in general instrumentation, are considered in this course. Some laboratory measurements at both audio and radio frequencies are included. Prerequisites: 361, Calculus 205A, B.

For Graduates Only

### 502E Current Developments in Physics 2 hrs.

This course consists of demonstration-lectures and discussions of some of the outstanding developments in physics in recent years, such as nuclear energy and its applications, artificial radioactivity, elementary

particles, high energy accelerators, semi-conductors and transistors and ultrasonics. Special attention will be given to make the course of practical value to high school teachers of science. Prerequisite: one year of General College Physics. Not offered 1957-58.

#### **POLITICAL SCIENCE**

Weber, Head; Associate Professors Clark, Plano and Stine; Assistant Professors Greenberg and Romani.

For Graduates and Upperclassmen

#### **437 Current Problems of American Government 2 hrs.**

An advanced study of the issues and policies in government, politics, and economics in their historic and sociological perspectives for elementary and secondary teachers. Specific units for teaching may be developed by individuals or groups. Not offered 1957-58.

#### **439 Municipal Government 2 hrs.**

City governments: their relation to the state, the rights and liabilities of municipal corporations, city pressure groups, and detailed analysis of the forms of municipal governments. Not offered 1957-58.

#### **451 British Government and Politics 2 hrs. Spring**

The organization and operation of the government of Great Britain and a survey of contemporary British political issues and problems. Prerequisite: Political Science 230A or equivalent.

#### **452 Government and Problems of the Far East 2 hrs.**

Covers the governmental organization and an analysis of current problems of organization and administration of countries of the Far East. Attention will be given to the growth of communism, land reform, industrialization efforts, and the development of democratic philosophy. Not offered 1957-58.

#### **453 Governments of the Soviet Union and Eastern Europe 2 hrs.**

The government and politics of the U.S.S.R. and a survey of the new regimes established in Poland, Czechoslovakia, Hungary, Romania and Yugoslavia. Prerequisite: Modern European History or equivalent. Not offered 1957-58.

#### **454 Governments and Problems of Central and South America 2 hrs. Fall**

This course includes a study of the governmental organization and an analysis of some of the more current economic and social problems of selected Latin American countries.

#### **465 American Foreign Policy 2 or 3 hrs. Spring**

An analysis of the diplomatic relations of the United States with emphasis on present foreign problems. Consideration will be given to

the formation and execution of American foreign policy. Prerequisite: Political Science 230A or a course in American History or equivalent.

**For Graduates Only**

**520 The Elements of Democratic Government 2 hrs. Spring**

Deals with the nature and types of government and the effects of education, technology, tradition and geography. Considers constitutionalism, representation, federalism and means used to achieve political ends.

**530 National Government 2 hrs.**

Considers the major aspects of the national government of the United States with emphasis upon constitutional questions and inter-governmental relations; executive, legislative and judicial branches; and problems of citizenship and civil liberties. Not offered 1957-58.

**531 State Government 2 hrs. Summer**

Emphasis is placed upon the role of the states in government, the state legislature, the executive, the courts, the role of the citizen, pressure groups and political parties.

**539 Problems of Municipal Government 2 hrs.**

Deals with problems resulting from the growth of cities; auxiliary departments such as personnel, finance, planning and law; and line departments including police, fire, public works and utilities, public health, parks and recreation. Prerequisite: Political Science 230B or equivalent. Not offered 1957-58.

**540 The Political Process of Government 2 hrs.**

An analysis of political behavior in the United States with particular reference to the growth and internal dynamics of interest groups; the characteristics of the party system; the role of both group and party in relation to public opinion and to the operation of the formal institutions of government. Not offered 1957-58.

**560 Problems of International Politics 2 hrs.**

Analysis through case studies of major current international problems, their backgrounds, solutions offered and current status. Not offered 1957-58.

**562 The United Nations 2 hrs. Fall**

The structure and organization of the United Nations and the specialized agencies. Consideration will be given to the procedures and machinery of international cooperation, dispute settlement, legislation and administration of other international systems and agencies.

**593 American Political Thought 2 hrs.**

A survey of the leading American contributions to our political thought, grouped around each of several great eras and issues of our national development. Not offered 1957-58.

## PSYCHOLOGY

Kuffel, Head; Professor Carter; Associate Professor Fatzinger; Assistant Professors Asher and McGinnis.

### For Graduates and Upperclassmen

#### 400 Physiological Psychology 2 hrs. Fall

Neurophysiological correlates of learning, perception, emotion, motivation, and problem solving. Interrelation between physiological processes and behavior theory is considered.

#### 401 Sensation and Perception 3 hrs.

Laboratory projects in the psychology of sensation and perception. Emphasis on experimental methods. Prerequisite: 301 or equivalent. Not offered 1957-58.

#### 404 Occupational Analysis and Classification 2 hrs. Spring

Sources of occupational information; procedures and techniques of job analysis and job classification; applications in employment procedures, placement and vocational counseling.

#### 406 Vocational Psychology 2 hrs. Fall

The problems of vocational choice and of occupational group-differences. Lectures, reading, and an occasional laboratory period substituted for a class hour.

#### 410 Learning and Memory 2 hrs. Summer, Spring

A survey of the general principles of learning and memory and an introduction to learning theory.

#### 411 Motivation—Emotion 3 hrs.

The psychological and physiological aspects of the topics are examined. Presents the current theories of motivation and emotion and attempts to integrate the conflicting views. Shows the influence of motivation on human behavior. Not offered 1957-58.

### For Graduates Only

#### 502 Measurements of Interest, Aptitude and Personality 2 hrs. Summer, Spring

A survey of measures used in areas other than intelligence. Emphasizes theory, methods, construction, evaluation and psychological implications of their use.

#### 505 The Deviant Individual 2 hrs. Summer, Fall

Study of the gifted, mentally defective, neurotic, delinquent, criminal and psychotic; with particular attention to factors in development and to distinctive manifestations of these deviations from the normal.

**506 Clinical Diagnosis****2 hrs. Summer, Fall**

Introductory study of the nature and application of clinical tools to the study of illustrative cases of problem behavior with consideration of means and methods of clinical treatment. Prerequisite: Psychology 305.

**507 Measurements of Intelligence****2 hrs. Fall**

Surveys the present status of intelligence testing, with emphasis on the theory, methods, construction, evaluation and psychological implications of group and individual intelligence tests.

**508 Survey of Personnel Psychology****2 hrs. Spring**

A survey of the psychological problems of personnel administration and the methods of personnel psychology. Lectures, discussions and an occasional laboratory period.

**510 Psychology of Work Effectiveness****2 hrs. Fall**

Factors affecting effectiveness of industrial work, such as fatigue and monotony, hours of work, rest pauses, biomechanics, and working conditions, with particular emphasis on psychological aspects.

**531 Personality Theory****2 hrs.**

Consideration and evaluation of the major theories of personality with emphasis on those theories having implications for counseling and therapy. An examination of experimental evidence and illustrative case studies. Not offered 1957-58.

**532 Individual Testing****2 hrs.**

Supervised practice in administration, scoring and interpretation of individual tests of general intelligence. Wechaler-Bellevue, Wisc. Prerequisite: Permission of instructor. Not offered 1957-58.

**535 Psychological Counseling****2 hrs.**

A consideration of the counseling process, various theoretical approaches to counseling, tests and techniques used in counseling. Techniques used in counseling children are considered. Not offered 1957-58.

**536 Counseling Practicum****2 hrs.**

Supervised practice of counseling in the clinical setting. Training in diagnosis, the use of counseling techniques, writing of case notes, etc. Prerequisite: Permission of instructor. Not offered 1957-58.

**SCIENCE DIVISION**

Professors Mallinson, Marburger, Osborn and VanDeventer.

**For Graduates Only****501E Modern Advances in Physical Science****2 hrs.**

This course consists of demonstration-lectures and discussions of some of the outstanding developments in physics and in chemistry in



recent years. Such topics as additions to the periodic table, radioactive isotopes, new organic compounds, ultrasonics, semiconductors and transistors, and nuclear energy will be considered. Prerequisite: 16 semester hours in physics and/or chemistry.

**503 Science for Elementary Teachers** 2 hrs. Summer

Indicates the part played by science experiences in the development of children, acquaints teachers with types of science content and teaching procedures suitable in elementary education.

**571 The Teaching of Science** 2 hrs. Spring

Analyzes and evaluates the objectives of science as a high-school subject and considers modern practices with respect to topics such as classroom method, motivation, laboratory work and directed study.

**SOCIAL SCIENCE DIVISION**

Professor Macmillan; Associate Professor Stine.

**For Graduates and Upperclassmen**

**400 Teaching of the Social Studies** 2 hrs. Summer, Fall, Spring

Objectives of teaching of the social studies in the junior and senior high school. Selection, organization and development of content materials. Study of the procedures and problems of effective teaching in the social studies.

**401 Social Studies Seminar: England—1957** 6 hrs.

A foreign-study seminar especially designed for teachers and advanced college students in the social studies. It consists of regularly scheduled lectures and discussions on British life, institutions, and international relations. Conducted trips relate the lectures to the contemporary scene. The seminar is in formal session at Ashridge College, England, for a period of five and a half weeks, after which the party will travel on the continent for approximately four weeks. Credit, up to a maximum of three semester hours in one department, may be distributed among economics, history, political science, and sociology.

**SOCIOLOGY**

Kercher, Head; Associate Professors Horton, Hunt and Manis; Assistant Professors Flapan, Reid and Whatley.

**For Graduates and Upperclassmen**

**443 Population Problems** 3 hrs.

The social and cultural factors influencing the reproductive behavior of man are examined. Bio-Social facts are presented and analyzed but primary stress is on the social implications of present and future population trends. Prerequisite: 12 semester hours of Social Science. Not offered 1957-58.

**444 History of Social Thought****2 hrs. Spring**

A critical survey of the social thinking of outstanding students of society from Plato to those of modern social science. Prerequisite: Principles of Sociology 241 or Introduction to Contemporary Society 101A, or Social Dynamics of Human Behavior 540.

**445 Family Life Counseling and Education****2 hrs. Summer**

This course is designed to acquaint the student with procedures for increasing competence for family living. The course will focus on interpersonal competence as an aim of family life counseling and education and will concern itself with methods, appropriate in the school, church and social agency, for working with individuals and small groups who desire preparation for marriage and parenthood.

**446 Juvenile Delinquency and the Community****2 hrs. Fall, Spring**

A study of juvenile delinquency as a social problem. Extent, causative factors, methods of treatment, and programs of prevention and control are covered. Prerequisite: Principles of Sociology 241, or Social Dynamics of Human Behavior 540, or equivalent.

**447 Community Agency Resources****2 hrs. Summer, Spring**

A study of community agencies and resources for those concerned with family and personal problems. Emphasis is placed upon the availability of these resources and their effective use by business and industry, speech therapists, guidance counselors and teachers.

**448 Comparative Culture Studies: Britain and the United States****2 hrs.**

A comparative study of the structure and the functioning of aspects of culture in Britain and America. Considers the courts, the educational system, the welfare state, class stratification, correctional institutions and political organizations. Prerequisite: Principles of Sociology 241, or Introduction to Contemporary Society 101A, or Social Dynamics of Human Behavior 540. Not offered 1957-58.

**449 Contemporary Social Movements****3 hrs.**

A study of the growth and place in contemporary society of selected social movements, including communism, fascism, Ku Klux Klan and the Townsend movement. Prerequisite: Principles of Sociology 241, or Introduction to Contemporary Society 101A, or Social Dynamics of Human Behavior 540. Not offered 1957-58.

**For Graduates Only****540 Social Dynamics of Human Behavior****2 hrs. Summer, Fall**

The concepts of sociology, cultural anthropology and social psychology essential to understanding human development and social behavior are systematically explored and integrated. Designed for students who have not had a foundation course in sociology.

**541 Primary Group Dynamics****2 hrs. Fall**

A study of the forces that influence the outcomes of primary group activity. The effects of diverse personalities, of varying leadership roles, of person to person interaction, and of the responses of the group as a whole are considered. Prerequisite: Principles of Sociology 241, or Social Dynamics of Human Behavior 540.

**542 Social Pathology and Personal Deviation****2 hrs. Spring**

A study of the social aspects of personal deviation. Subject-matter would include consideration of the alcoholic, the drug addict, the marginal man, and the sexually maladjusted. Course considers deviate behavior in light of social background, causative factors, and possible therapy. Prerequisite: Principles of Sociology 241, or Social Dynamics of Human Behavior 540 or equivalent.

**544 Techniques of Intercultural Adjustment****2 hrs.**

A study of intercultural processes of adjustment involving different racial, national and religious groups. The factors giving rise to present day conflict situations are examined and special emphasis is given to techniques of adjustment through individual and community action. Prerequisite: Principles of Sociology 241, or Social Dynamics of Human Behavior 540 or equivalent. Not offered 1957-58.

**545 The Family****2 hrs.**

The institutional structure and functions of the family in a changing society. Not offered 1957-58.

**SPEECH**

York, Head; Professors Becker, Brown, Garneau and Van Riper; Associate Professor Puis; Assistant Professors Bush, Egland and Herman, Shaw.

**For Graduates and Upperclassmen****401 Teaching Speech in the Elementary School****2 hrs. Spring**

This course is designed to give the teacher in the elementary school an understanding of the role of general speech training in the elementary school curriculum, the relationships between speaking and reading and writing, methods of teaching individual and group speaking activities, types of speech improvement programs, and methods of improving listening skills.

**404 Creative Dramatics for Children****2 hrs. Summer, Fall, Spring**

This course is designed primarily for teachers in the elementary grades. It will deal with the principles, materials, and techniques of creative dramatics. The course is planned to prepare the elementary school teacher in the use of these activities to enrich the classroom program and to develop creativity in the individual child.

- 405 Speech for the Classroom Teacher** 2 hrs. Summer, Spring  
Designed to help the teacher become more effective in speaking and reading. The course content will be adjusted to meet the specific needs of the individual members of the class.
- 406 Public Speaking II** 2 hrs. Spring  
Advanced study of speech composition and audience psychology, analysis of model speeches, and frequent practice in constructing speeches for special occasions. Training in coaching or participating in oratorical contests. Prerequisite: Public Speaking 206, or consent of instructor.
- 408 Direction of Forensic Activities** 2 hrs.  
For students who expect to direct forensic activities. Includes the principles of teaching debate and other forms of public speaking. Opportunities will be given for directing local speaking activities. Prerequisite: a major or minor in speech and consent of instructor. Not offered 1957-58.
- 409 Persuasion** 3 hrs. Fall  
Speech skills are developed by the presentation of studies in persuasion, by participation in discussion and by criticism of both. Content deals with psychological theories and experimentation in motives and theories in persuasion ethics.
- 415 Acting** 2 hrs. Spring  
A continuation of Acting 215, with intensive work in the techniques of creative acting. Each student will create at least one role in a play. Prerequisite: Acting 215 or consent of instructor.
- 416 Oral Interpretation of the Drama** 2 hrs.  
Platform reading of the one-act and the three-act play. A basis for judging the drama is established through class analysis and criticism. Prerequisite: Interpretive Reading 210, Acting 215, Interpretive Reading II 310, or consent of instructor. Not offered 1957-58.
- 421 Teachers' Workshop in Dramatics** 4 hrs. Summer  
A practical workshop dealing with the basic skills of theater production. Designed for students with little or no formal training in theater.
- 441 Radio in Education** 2 hrs. Spring  
An exhaustive study is made of the sources of radio programs and transcriptions available to supplement other teaching aids. The group will study methods of preparation for utilization, techniques of class-listening, and follow-up procedures.
- 442 Teachers' Workshop in Radio** 4 hrs. Summer  
A practical workshop in radio with emphasis upon the use of radio equipment. Includes planning program series, directing radio production, and editing radio scripts.

**451 Basic Voice and Speech Science****3 hrs. Fall**

For students majoring in speech or speech-correction. Topics include anatomy and physiology of hearing; speech and hearing; anatomy and physiology of articulation and phonation; the neurological organization of the speech function; the physics and physiology of quality, pitch and intensity; and the psychology of speech.

**452 Stuttering and Allied Disorders****3 hrs. Spring**

Designed to acquaint the student with the nature, causes, development, and treatment of the more serious speech disorders. The literature of stuttering, cleft palate, deaf and aphasic individuals will be surveyed as well as the various methods for treating these disorders. Prerequisite: Principles of Speech Correction 251.

**453 Applied Speech Correction****3 hrs. Summer, Fall, Spring**

Deals with the actual practice of speech correction. Involves training in the remedial treatment of speech defectives in the college clinic and schools associated with the college, service in a traveling speech clinic, and the study of the principles of clinical practice. Prerequisite: Fundamentals of Speech 105A, B, Principles of Speech Correction 251, and consent of instructor.

**456 Speech Therapy****2 hrs. Fall**

Gives intensive training in techniques of speech therapy for disorders of phonation, delayed speech, dyslalia, stuttering and aphasia. Permission of instructor.

**499 Teaching of Speech****3 hrs. Fall**

Emphasizes problems of teaching speech in high schools. Considers aims, principles, materials and techniques related to speech teaching.

**For Graduates Only****501 Group Problem Solving****2 hrs. Fall**

Presents principles and practices in group problem solving in a democracy. Techniques employed in committee hearing, symposium, panel, forum, and board meeting will be considered.

**502 Speech and Social Control****2 hrs. Summer**

This course is an inquiry into the factors and forms of speech and the areas of social experience which are involved in the use of speech for social control. It will include investigation and observation of speech in politics, social movements, business and industrial relations, advertising and selling, promotional drives, and the like. The over-all aim of the course is to develop in the individual the ability to evaluate critically the many verbal efforts to influence human belief and behavior which are thrust upon us daily.

**526 Public Address in American Society****2 hrs. Spring**

This course will deal with the study of the history and criticism of public address in America. It will include a study of the important speakers in American history, an analysis of their speeches, their impact upon American society, and their relationship to political and social movements in the United States.

**554 Teaching of Speech Correction****2 hrs.**

A study of the methods of individual and group therapy for common speech disorders. Not offered 1957-58.

**555 Public School Speech Correction****2 hrs. Spring**

Deals with the organization and administration of speech therapy in the public schools. Problems of examination, certification, scheduling, inter-departmental relationships, parent and teacher education, techniques on group therapy, individual therapy and speech improvement methods for the elementary grades are covered.

**591 School Assemblies and Community Programs****2 hrs. Summer**

This course is designed to provide help to teachers and administrators in planning and executing school assemblies, educational conferences, and special programs for various community groups. It will deal with sources of materials, problems in planning, and techniques and skills involved in readying such programs for their presentation.

**VOCATIONAL DIVISION****Kohrman, Head****For Graduates and Upperclassmen****426 Textile Fiber Clinic****2 hrs. Summer  
(July 8-19)**

A workshop type program. Specialist and visual aids will present the newest information on textiles. To be followed by a study of methods implementing the new learnings.

**470 Principles of Practical Arts and Vocational Education****2 hrs. Summer, Fall**

The place and function of the practical arts and vocational education in the modern school; fundamental principles upon which this work is based.

**For Graduates Only****520 Occupational Laboratory Experience****4 hrs. Summer**

A supervised business and industrial experience program involving full-time employment for at least eight weeks. Students will study and participate in experiences in a specific occupational area. Prerequisite: consent of instructor.

**578 Administration and Supervision of Practical Arts and Vocational Education** 2 hrs. Spring

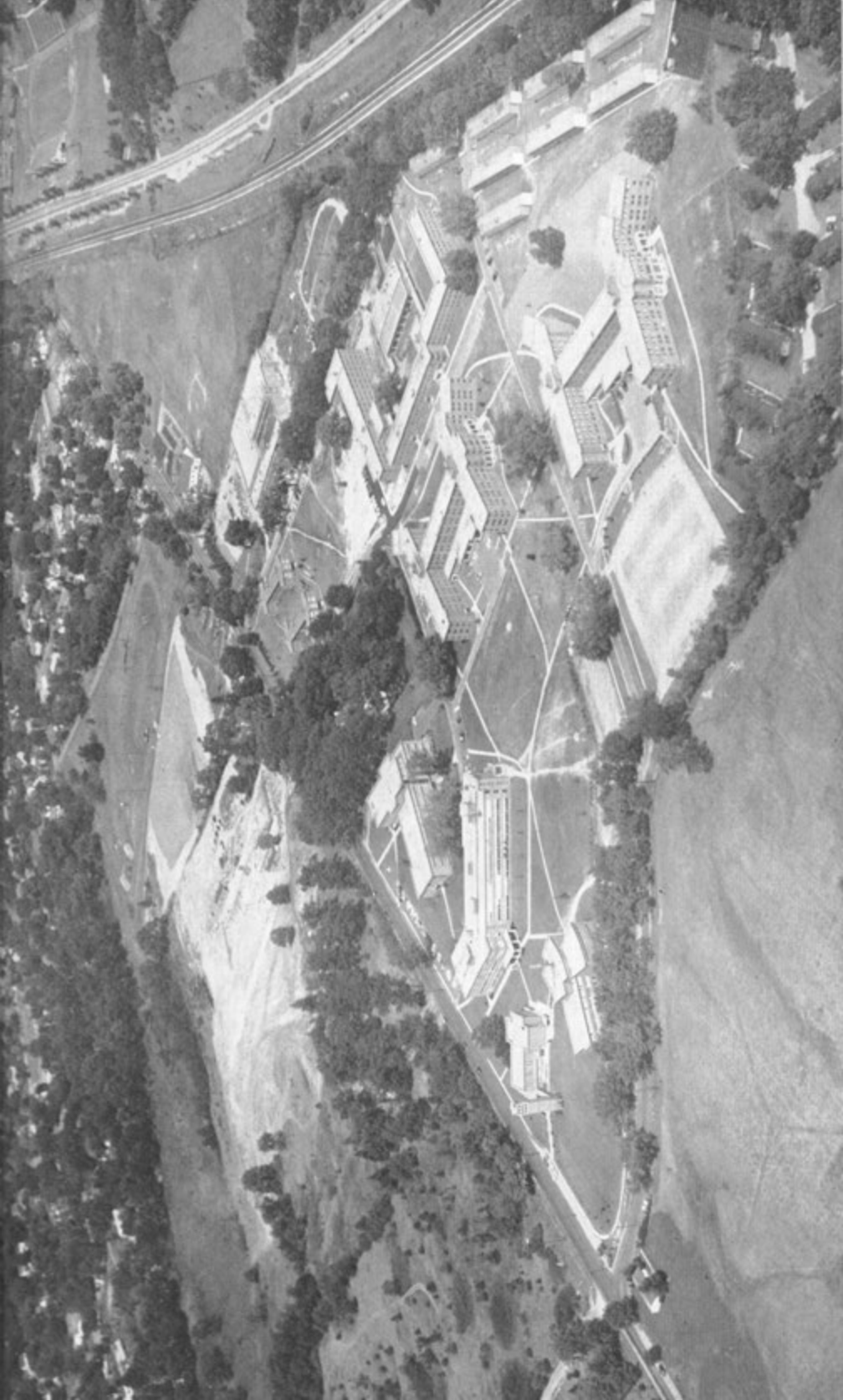
The functions of administration and supervision; problems involved in the organization and operation of practical arts and vocational education programs.

**580 Seminar in Vocational Education** 2 hrs.

An intensive study of problems related to vocational education. For teachers, coordinators and administrators who have completed at least fifteen hours graduate credit. Not offered 1957-58.

**590 Trends in Technology and Employment** 2 hrs  
Post-Session Workshop (August 5-16)

Major occupational shifts resulting from recent advances in science and technology. The changing nature of the labor force. Economic and sociological implications of automation and atomic power. Educational programs needed to meet technical and skilled manpower requirements.





EAST CAMPUS

CAMPUS OF  
WESTERN MICHIGAN COLLEGE  
KALAMAZOO, MICHIGAN

WEST CAMPUS

1. EDUCATION BUILDING & WOMEN'S GYM
2. TRAINING SCHOOL - ELEMENTARY & STATE HIGH
3. LIBRARY BUILDING
4. NATURAL SCIENCES BUILDING
5. HEALTH SERVICE BUILDING
6. MEN'S GYMNASIUM
7. VANDERCOOK HALL
8. SPINDLER HALL
9. THE THEATRE
10. WALWOOD HALL (UNION & RESIDENCE)
11. ELECTRONICS BUILDING
12. MECHANICAL TRADES BUILDING
13. INDUSTRIAL ARTS BUILDING
- 14.
15. a. WALDO STADIUM - NW STANDS  
b. WALDO STADIUM - SE STANDS
16. HYAMES FIELD

17. BUSINESS EDUCATION BUILDING
18. THEATRE STORAGE
19. SPEECH ANNEX
20. INDUSTRIAL EDUCATION ANNEX
21. MAINTENANCE BUILDING
22. GREENHOUSE
23. a. PANHELLENIC HOUSE  
b. COLHECON HOUSE  
c. "TY HOUSE" HERALD OFFICE & BROWN & GOLD OFFICE
24. a. FACULTY RESIDENCE  
b. FACULTY RESIDENCE  
c. FACULTY RESIDENCE
25. a. R.O.T.C. BUILDING  
b. R.O.T.C. BUILDING
26. ARCADIA CAFETERIA

26. a. HILLSIDE APARTMENTS  
b. HILLSIDE APARTMENTS
27. BURGRACKEN HALL
28. BURHAM HALL
29. MAYBEE HALL
30. DRAPER-SIEDSCHLAG HALLS
31. KANLEY CHAPEL
32. ADMINISTRATION BUILDING
33. PRESIDENT'S RESIDENCE
34. GOLF COURSE CLUB HOUSE
35. TOOL HOUSE
36. PHYSICAL EDUCATION BUILDING & FIELD HOUSE
37. DAVIS HALL
38. FOOD SERVICE BUILDING
39. ZIMMERMAN HALL
40. ELMWOOD APARTMENTS
41. ELLSWORTH HALL
42. STUDENT CENTER
43. RESIDENCE FOR MEN
44. PAPER INDUSTRY LABORATORIES
45. WALDO LIBRARY

